Chemical Industries

OCTOBER 1950

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Workman cleans excess petroleum wax from mold

CI REPORTS ON PRODUCTION, PROPERTIES, USES OF COMMERCIAL WAXES—p. 563

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BOOKS FOR INDUSTRY

Chemical Economics Handbook, directed by Raymond H. Ewell. Stanford Research Institute, Stanford Calif. Subscription $250 yr., additional copies to same organization, $60.

HERE IS an entirely new kind of chemical data service. It promises to fill what has been a long-felt need for a coordinated body of standardized information on production, sales, consumption, prices, exports and imports of individual chemicals and end-chemical groups. In addition to these, however, it includes related data on the major economic indicators, principal chemical-consuming industries, and raw materials. A section on regional data has been announced for inclusion next year.

The service is provided in the form of standardized 8½ x 11 sheets which fit a special ring binder supplied with subscription. Each sheet carries data on one subject, in unusually clear and easy-to-read chart form. Where trend lines are important, they have been included. All charts carry back to 1910, or as soon thereafter as the statistics are available.

Plan of the service is to issue about 400 data sheets a year, in groups of 20 to 40 a month. Mailings were started in September, and thus far have amounted to 93 sheets. Some 160 more are planned for the rest of 1950.

Subscriptions entered at any time during the year cover the data sheets for that year. Dr. Ewell anticipates that only new sheets will be issued during 1950 and 1951, but in subsequent years revised sheets will be issued along with additional new ones. During 1950 information will be presented on all chemicals produced in amounts over $5,000,000 a year and many in the $1,000,000 to $5,000,000 range. The smaller-value chemicals will be covered in subsequent years.

Introduction to Textile Chemistry, by Bruce E. Hartsuch. John Wiley and Sons, Inc., New York; 413 pp., $4.75.

THIS BOOK is designed for readers desiring a nodding acquaintance with the complex field of textile chemistry. A chapter on simple chemical calculations plus one on organic chemistry gives the layman a smattering of the chemistry that is encountered later in the text. The meat of the work, however, is in the sections dealing with the natural fibers and the more prominent synthetics. Synethtic polymers as Vinyon, Saran, Orlon and the ever present Nylon receive adequate coverage. Treatment of such related subjects as dyes and dyeing has intentionally been omitted in the belief that these fields are too specialized for inclusion in an introductory volume.

The simple approach augmented by much background and industrial information is intended to provide a foundation for those who will continue into the field. Primarily a student's text, the work by virtue of its general approach may be of benefit to textile specialists in fields outside their own.

The Technology and Chemistry of Alkaloids, by Frank E. Hamerslag. D. Van Nostrand Company, Inc. New York; 319 pp., $6.50.

A VOLUME devoted to the chemistry of alkaloids with the emphasis on manufacturing processes. Much historical detail has been sacrificed to present a maximum of practical chemical information. Treatment of the subject is subdivided according to the alkaloidal families, omitting such commercially insignificant groups as the morphine and cinchona alkaloids. A discussion of the general methods of production, including descriptions of equipment and machinery, is a novel feature intended to make the book attractive to those engaged in the manufacture of alkaloids and their derivatives.

Industrial Chemistry, by E. Raymond Riegel. Reinhold Publishing Corp., New York, 1015 pp., $7.00.

THE NEW fifth edition of this well-known text retains the organization and scope of the earlier editions. However, following recent developments, new material is presented on antibiotics, new organic insecticides and fungicides, new dyeing techniques, atomic energy and the many recent developments in petroleum and plastics.

Very complete revisions have been made of the chapters on glass, water and sewage, sugar and photography. In all chapters descriptions of current processes have been integrated with earlier material.

Laboratory Experiments in Organic Chemistry, by Roger Adams and J. R. Johnson. The Macmillan Company, New York; xiv + 525 pp., $3.25.

IN THE fourth edition of this popular laboratory manual, the sections on laboratory operations have been revised extensively so that greater emphasis is given to details of correct manipulation, and the exposition of underlying principles has been expanded.

Several new experiments have been added to provide a wider selection and permit further variation from one year to another.

Biological Studies with Polonium, Radium, and Plutonium, edited by Robert M. Fink. McGraw-Hill Book Co., New York; vvi + 411 pp., $3.75.

THIS VOLUME reports the experimental studies carried out by the Biological Chemistry Section of the Division of Radioactivity in the Manhattan Department of the University of Rochester. Part I deals with the distribution and excretion of polonium; Part II discusses the distribution and excretion of radium; and Part III deals with the comparative toxicities of polonium, plutonium, and radium. Based on Manhattan Project reports, the book includes a critical survey of literature concerning those elements and the section's own studies.

Principles of Ionic Organic Reactions, by Elliot R. Alexander. John Wiley & Sons, Inc., New York; viii + 318 pp., $5.50.

THE AUTHOR, who is assistant professor of chemistry at the University of Illinois, breaks down a great many diverse organic reactions into fundamental steps based on ionic mechanisms. The first six chapters of the book deal with the fundamental intermediates and types of reactions from which most ionic transformations can be constructed. The remaining chapters give a detailed coverage of individual processes such as Grignard reactions, Claisen condensations, etherification, esterification, aromatic substitution, etc.

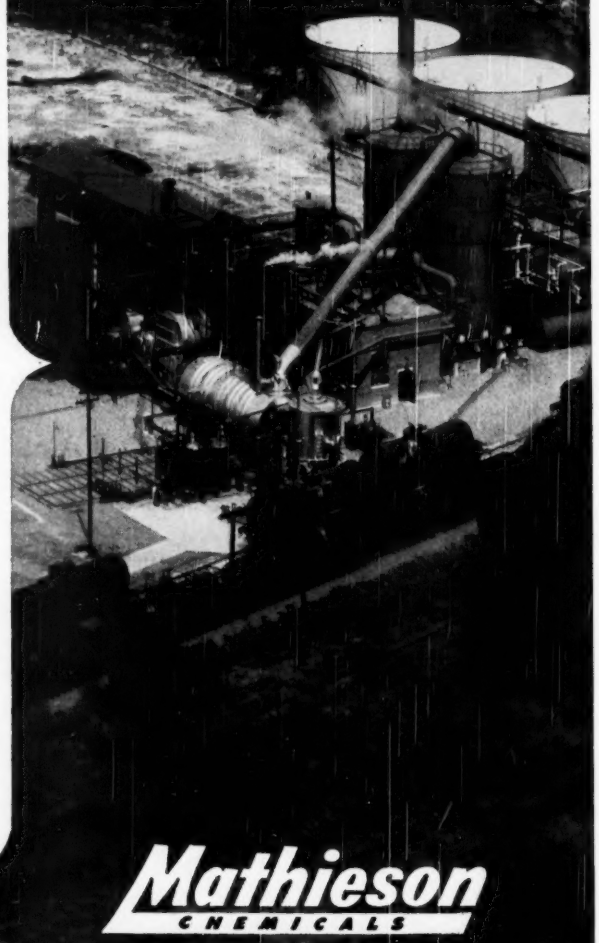
Written from the organic chemist's point of view, the book is nonmathematical and non-physical in presentation.

Melting and Solidification of Fats, by Alton E. Bailey. Interscience Publishers, Inc., New York; xiv + 357 pp., $7.

THIS BOOK is one of a series of monographs on the chemistry and technology of fats, oils, and related substances. It is a correlation and interpretation of experimental data on the melting and solidification of fats and fatty acids revealing the interrelationship between the phenomena associated with phase transformation. The text has been written primarily for the practicing oil and fat chemist or technologist, although portions may be of interest to physical chemists at large. For the nonspecialist, a brief and somewhat elementary introduction to physical chemical principles, laboratory methods and techniques has been included.


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Chemical Industries

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Vol. 67, No. 4

OCTOBER 1950

The Business Magazine of the Chemical Process Industries

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THE READER WRITES

A Missing "Plus"

To the Editor of Chemical Industries:

I appreciated your presentation of the Aliphatics Chemicals article in your August issue.

However, I must take your proofreaders to task for messing up the formula on the top of column 1, page 189. The third line of the formulas should be

$$R_1CH_2CH{=}CHCHO{+}H_2 \rightarrow .$$

E. H. RIDDLE
Rohm & Haas Co.
Philadelphia, Pa.

We regret sincerely that a vital plus sign eluded both printer and proofreader.—ED.

Mixed Bed Demineralization

To the Editor of Chemical Industries:

In your July, 1950, issue of CHEMICAL INDUSTRIES, page 24, in your interesting topical column, What's New, you have a description of mixed bed demineralization or deionization. There are several inaccuracies in this article which we believe deserve some correction on the part of the editors.

Mixed bed demineralization was first described in 1941 in British Patent 553,233 assigned to the Permutit Company, Ltd. This is in direct contrast to the statement that the "origin of this essentially simple idea is lost in dim antiquity." Portable mixed bed units of cation exchangers and anion exchangers were supplied by Permutit to the Armed Services during World War II for making demineralized water.

Separating procedures for mixed bed demineralization units were studied by several investigators. The first successful work along this line that we are familiar with, was by Dr. F. K. Daniel in 1946.

We believe that this information will be of interest to the readers of your magazine who may be confused by the large amount of promotional work that has been done in this field.

M. E. GILWOOD, Manager of
Chemical Research
The Permutit Co.
New York, N. Y.

CI is aware, of course, of Permutit's work in the field of mixed-bed demineralization. However, we regard the development described as being the first commercial application of the principle—leaving aside the rather special use in portable kits for the armed services.—ED.

More Petroleum Aromatics?

To the Editor of Chemical Industries:

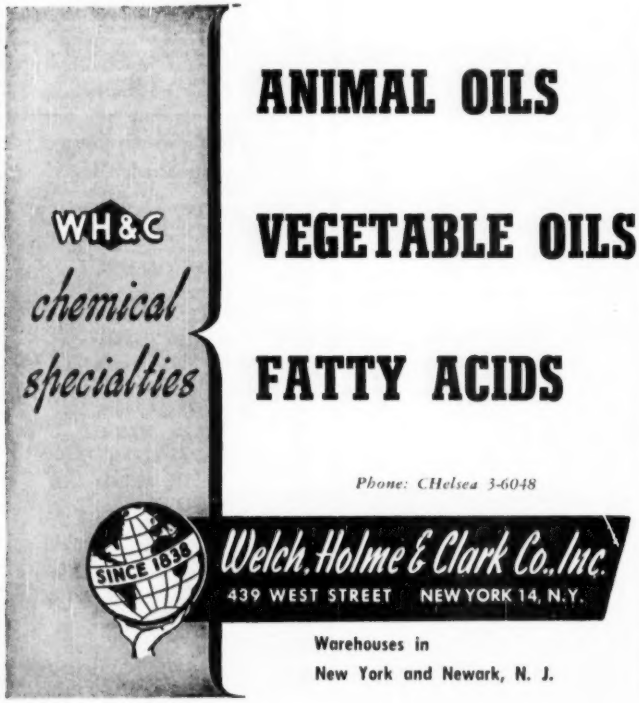
In the Newsletter section of your July issue you comment that several (petroleum) refiners plan on installing such processes as platforming "to convert gasoline stocks to aromatics" and that "chemical users of aromatics will be the gainers when refiners offer them inevitable surpluses."

I fear you paint too rosy a picture. It is true that various platforming installations, for improving installations, for improving the octane rating of virgin naphtha, are under way and that the products may contain up to 50% aromatics, but this will mean little or nothing in the overall picture of aromatics supply. In the first place, naphtha fractions containing up to 50% aromatics are already available in tremendous volumes from the multitudinous cat crackers that the petroleum industry is already operating. Unfortunately, fractionation equipment and the installed capacity of the extractive distillation equipment necessary to get from this level up to the purity required by chemical users of benzene, toluene, etc., are limited and the cost of installing such equipment is high. The availability of a (comparatively) small additional amount of aromatic feed stock will not change the overall situation very much.

The unfortunate fact is that if the chemical users of aromatics want really large additional supplies from the petroleum industry they will have to pay for the installation of additional extractive distillation equipment or its equivalent, and this will take both considerable time and a lot of money. Operating costs will be substantial even for large installations and with gasoline octane ratings going higher and higher the base value of light aromatics to the refiner has increased sharply and is already crowding 20 cents a gallon. Final costs of petroleum aromatics of "chemical grade" are inevitably high. Furthermore, barring some unforeseeable new development, benzene from petroleum will apparently always cost more than toluene since its concentration in cracked naphthas, "hydroformates," "platformates," etc., is normally very much less than that of toluene, thus increasing extraction costs for benzene. The same is in general true as to benzene/toluene ratios in aromatic virgin naphthas.

WM. B. PLUMMER
Indoil Chemical Co.
Chicago, Ill.

CI's thanks to Reader Plummer for his thorough discussion. Hardly starry-eyed, CI was peering at the long-term outlook. Benzene users, for instance, are faced not so much with a cost problem as an absolute shortage.—ED.



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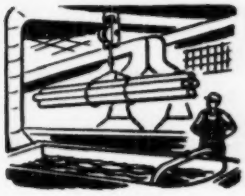
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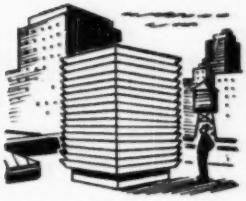
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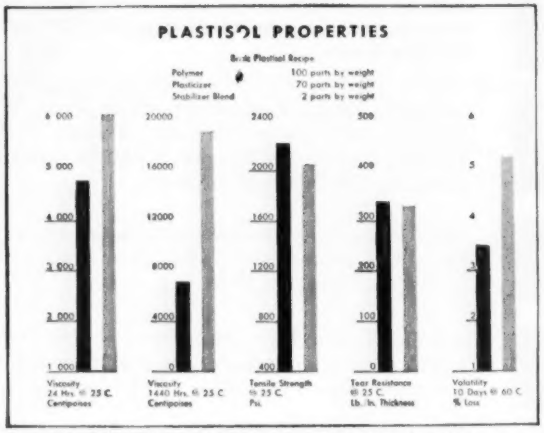
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Plastisols prepared with this high quality primary plasticizer possess lower viscosity and better storage stability than do those compounded with equivalent amounts of di-2-ethylhexyl phthalate. At the same time, the fused products exhibit improved physical properties, and are subject to less volatile loss.

If you manufacture plastisols for spread coating, molding, or casting, the superior performance of Barrett "ELASTEX" 10-P Plasticizer is well worth investigating.

✓ **NOTE:** Technical advice on the use of BARRETT Chemicals is available to you through the assistance of Barrett representatives. Why not put your problem up to us? Phone, wire or write.

BARRETT* CHEMICALS AVAILABLE TO THE PLASTICS INDUSTRY

"ELASTEX" 10-P Plasticizer	Dibutyl Phthalate
"ELASTEX" 28-P Plasticizer	Phthalic Anhydride
"ELASTEX" 50-B* Plasticizer	Phenol
"ELASTEX" DCHP Plasticizer	Crystal Urea

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THE BARRETT DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street, New York 6, N. Y.
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Detergent-alkali pressure-spray cleaning from all four sides as first step of surface preparation in leading automobile plant.

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Nacconol*

AMERICA'S LEADING SYNTHETIC DETERGENT

More Nacconol has been used for more years than any other synthetic detergent in the compounding of metal cleaners. Why risk your reputation on "new discoveries" when you can specify NACCONOL and be sure!

NO OTHER DETERGENT DOES SO MUCH FOR SO LITTLE!

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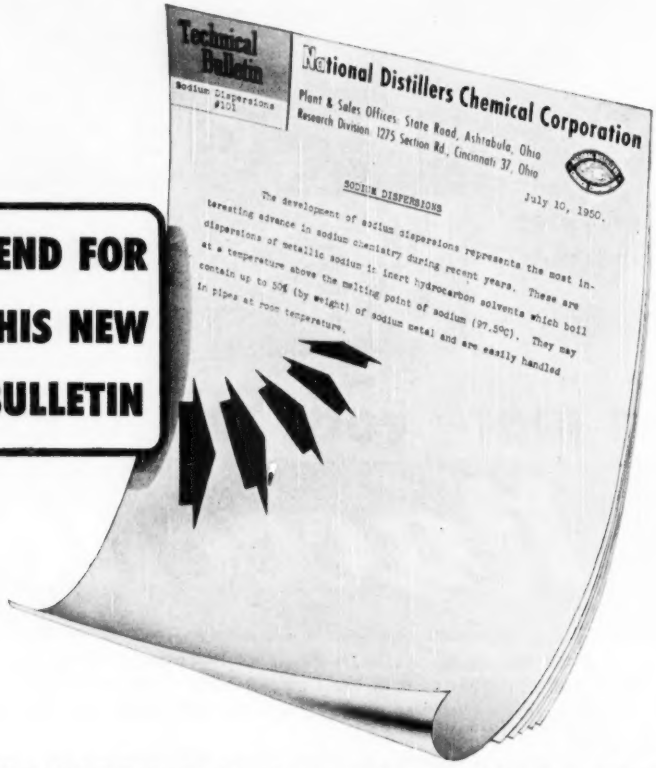
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This 11-page Technical Bulletin describes the preparation, use and handling of Sodium Dispersions. Prepared by our Research Division, the bulletin suggests an entirely new field of Sodium chemistry. Sodium, in this finely-divided form, makes possible increased reaction rates, improved yields, lower reaction temperatures and decreased side reactions. For the latest information on how to use Sodium Dispersions, address your inquiry on company letterhead to: Sales Department, National Distillers Chemical Corporation, Ashtabula, Ohio.

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for AERO* PHTHALIC ANHYDRIDE

Widely used in the manufacture of phthalic alkyd resins, phthalate esters, phthalocyanine pigments, and vat dyes.

- Free-flowing, clean, white flakes
- Exceptionally free from color and odor-forming impurities

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Di-2-Ethyl-hexyl Phthalate

This is the leading plasticizer in its field for vinyl resin films; an excellent plasticizer for nitrocellulose and synthetic rubber because of such features as:

- Low freezing point
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- Low vapor pressure
- Light color
- Good compatibility

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Increasingly popular in the coating resins manufacturing field for improving color retention, chemical resistance, and drying speed. Also used in the production of plastics, laminating resins, and printing inks based on its reactions by condensation and addition polymerization.

- Free-flowing—easy to handle
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A highly reactive industrial chemical—with a double bond and two available acid groups—for use in the manufacture of alkyd-type resins, pharmaceuticals, rubber, and surface active agents.

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☐ AERO DOP ☐ AERO PHTHALIC ANHYDRIDE
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"We recommend . . ."

Recommendations from Wyandotte Technical Service are not "off-the-cuff." Here's how we worked with one Caustic Soda customer.

We recommended that he use liquid caustic rather than solid. We helped him appraise his plant conditions. We drew up schematic diagrams outlining the handling of liquid caustic. We showed him how to dilute the liquid to the concentrations he needed. We drew up a cost estimate for the handling system. We recommended the types of equipment we felt he needed.

He turned our prints over to his engineers for execution. But we continued to advise him throughout the construction program. We inspected the finished system. And we were on hand when the switch was thrown for the first tank car shipment.

In one year's time, his savings paid for the installation . . . and began to return him a profit.

Service like this is not for the "favored few." It is available to any Wyandotte customer. Not just for Caustic Soda, but for Soda Ash or any Wyandotte product. Wyandotte Technical Service is not a sales gimmick. It is an outgrowth of our feeling that we should share with our customers the accumulated experience of 60 years of chemical making.

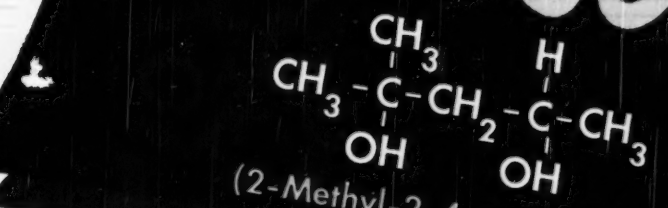
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FROM SHELL CHEMICAL

HEXYLENE GLYCOL



(2-Methyl-2, 4-pentanediol)

A versatile, stable glycol with a variety of industrial applications

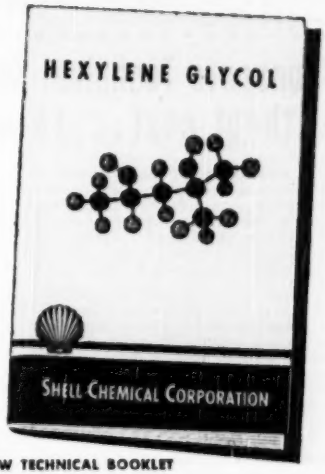
THE DIVERSIFIED USES of Hexylene Glycol are a result of *four* distinguishing features. Hexylene Glycol is (1) an ideal coupling or blending agent; (2) a high-boiling (198.3° C) solvent and penetrant; (3) an efficient wetting and dispersing agent; and (4) a mild humectant.

Hydraulic Brake Fluids. Brake fluids which contain Hexylene Glycol have high tolerance for moisture . . . show little tendency to promote rubber swelling . . . exhibit low corrosion characteristics . . . form clear solutions with other castor oil brake fluids.

Printing Inks. At ordinary temperatures press stability is insured by the low vapor pressure and mild hygroscopicity of Hexylene Glycol. At elevated temperatures of flash-dry ovens the relatively high volatility of Hexylene Glycol permits fast drying with higher, more uniform press speeds.

Cleaning Compounds. Hexylene Glycol, as a coupling agent in engine cleaners and general industrial cleaners, effects stable and homogeneous emulsions. In pre-spotting soaps, Hexylene Glycol couples the soap with water, contributes solvent power and facilitates the removal of last traces of soap and water during dry cleaning.

Other applications suggested by the coupling, wetting and high solvency properties of Hexylene Glycol include soluble cutting oils, grinding fluids, wood fungicides and textile assistants.



NEW TECHNICAL BOOKLET
Contains data on industrial applications . . . includes useful charts, tables, properties and specifications.

Booklet mailed on receipt of your letterhead request. Samples of Hexylene Glycol are available for your evaluation.

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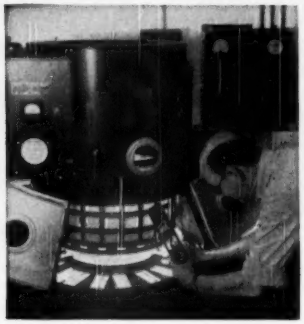
For Your Information

MONSANTO PLASTICS

Every month Monsanto publishes three pages of pertinent information. Here you will find suggestions and applications ideas selected to help you improve your products, lower your production costs, increase your profits. More information will gladly be furnished on request.

Here's the easiest way to solve your plasticizer problems







CALL ON MONSANTO . . . . FOR TECHNICAL SERVICE . . TO SOLVE YOUR PROBLEM

Monsanto Technical Service is available . . . without cost . . . to users of plasticizers

If a vinyl plasticizer problem rears up while you're developing a new product, improving your present line or seeking ways to cut costs or speed up processing, don't let the problem get you down. Call on Monsanto Technical Service and solve your difficulty as easy as **1 . . . 2 . . . 3.**

1. Monsanto's fully-equipped application laboratory will work for you without cost or obligation. Write, wire or phone and tell us your troubles. We will save you the initial work by recommending a *proved* formulation. Or, the Monsanto Technical Service Staff will work out a tailor-made formulation for you. If necessary, and if you desire it, a specialist will work with you *in your plant.*

2. Monsanto Santicizers are the world's most complete line. With this *complete* vinyl plasticizer line at their command, our technicians can recommend *exactly* the right plasticizer, or combination of plasticizers, *you* need.

3. Your problems are solved so you gain the advantages of improved products, lowered costs or more efficient processing. For further information on this *confidential* Monsanto service to users of plasticizers, mail the coupon or get in touch with the nearest Monsanto Sales Office.

FREE



Details on the world's most complete line of vinyl plasticizers, plus technical information of value to plastics manufacturers, are yours in the 80-page book, "Monsanto Plasticizers." Mail the coupon for your *free* copy.

NEW DATA on Monsanto's flavor and aroma chemicals

New solubility data on Monsanto's Ethavan,* vanillin and coumarin are available in three recently revised folders. Folders also contain information of interest to industries that use such chemicals for flavoring, as aromas or for masking undesirable odors and tastes. Mail the coupon for your *free* copies of these folders.

Inhibitor 038 stops corrosion, protects products and containers

Inhibitor 038 protects steel containers from corrosion when it is added to most nonaqueous solvents and solutions. It guards such products against picking up dissolved metal and permits shipment in metal instead of in glass or wood. For details write Monsanto, Everett Station, Boston 49, Massachusetts.

Carpet cleaner becomes germ killer by addition of Monsanto Santophen 1

The list of formulators who are incorporating Monsanto's Santophen* 1 in their floor and carpet cleaners is growing by leaps and bounds. There are several important reasons, in addition to its low cost, why there is an increasing preference for Santophen 1. Here are some of them:

Santophen 1 reduces bacteria count drastically. In one instance a rug cleaner containing Santophen 1 cut the bacteria count in carpet from 8,000,000 per square yard to 16 per square yard.

Santophen 1 is compatible with commonly-used soaps and synthetic detergents.

When properly formulated, Santophen 1 retains its bactericidal activity in commercial cleaners.

Santophen 1 controls mildew.

Santophen 1 is safe and convenient to handle, (a) formulated, (b) by itself.

Many formulations containing Santophen 1 have been registered with the U. S. Department of Agriculture.

If you want more information on the use of Santophen 1 in cleaning compounds or for any germicidal uses, mail the coupon.

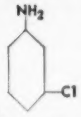
Plasticizer storage data

If you are interested in bulk tank storage of plasticizers, mail the coupon for a free copy of Monsanto Bulletin No. O-69.

TWO INTERMEDIATES WORTH INVESTIGATING

Here are two intermediates that already have usage in the manufacture of dyestuffs and pharmaceuticals. However, it is believed these products may have a much wider range of applications. Read the information given below. If you see possible use in your work, send for samples.

meta-CHLOROANILINE

Formula:  **Mol. Wt.: 127.57**

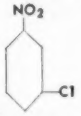
Properties:
Clear light-yellow liquid
Assay, 99% Min.
Crystallizing Point — minus 10.6° C. Min.
Distillation Range — 228° C. start, 231° C. dry point, 95% within 1.0° C.

Reactions:
Undergoes typical reactions of aromatic amines such as diazotization, acylation and alkylation. Reacts with CS_2 to give substituted thioureas and condenses with aldehydes.

Suggested Uses:
As an intermediate in the manufacture of azo dyes and pharmaceuticals.

meta-CHLORONITROBENZENE

(meta-Nitrochlorobenzene)

Formula:  **Mol. Wt.: 157.56**

Properties:
Greenish-yellow crystalline mass
Crystallizing Point — 43.9° C. Min.

Reactions:
Can be reduced to meta-chloroaniline and other intermediate products.
Can be further chlorinated, nitrated or sulfonated.

Suggested Uses:
As an intermediate in the preparation of dyestuffs and pharmaceuticals.

Looking for nontoxic plasticizer? Here are three with BAI's O.K.

If a nontoxic plasticizer will aid you in creating new products or improving ones now in your line, look into Monsanto Santicizer* 141, Santicizer B-16 and Santicizer E-15. All of these have been accepted as nontoxic by the Bureau of Animal Industry, U. S. Department of Agriculture.

Often, of course, you'll want to combine various other properties with nontoxicity in order to get the qualities you want in finished products. Monsanto, with the world's most complete line of plasticizers for polyvinyl chloride, can supply the right plasticizer to solve your problem.

AROCLOR 1248 . . . efficient, nonflammable liquid-phase heat-transfer medium

Monsanto's Aroclor* 1248 (chlorinated biphenyl) is a nonflammable liquid-phase heat-transfer medium for operations up to 300° C. (572° F.) that delivers both efficiency and safety. Aroclor 1248 has been used successfully for many years in industrial plants.

Aroclor 1248 has operated in gas-fired units ranging in capacity from 200,000 to 400,000 b.t.u. per hour. Commercial installations, with capacities up to 2,000,000 b.t.u. per hour and small electrically-heated stationary and portable units, with capacities around 40,000 b.t.u. per hour, have given excellent service with Aroclor 1248.

Nonflammable and noncombustible qualities of Aroclor 1248 have been established thoroughly by scientific tests. The spontaneous ignition temperature of Aroclor 1248 is 704° C. or 1299° F. This is well above practical requirements for operating units at 300° C. In spray tests, it was found that Aroclor 1248 required 64% oxygen for combustion. Fluids requiring over 45 to 50% oxygen in the spray test failed to cause fire in incendiary tests.

Monsanto, maker of Aroclor 1248, does not manufacture heating units, but will gladly refer you to concerns which produce such units. For details, mail the coupon for Technical Bulletin No. P-130, or contact the nearest Monsanto Sales Office.

Santomerse No. 1, efficient, all-purpose detergent-wetter

To name each specific use for Monsanto Santomerse* No. 1, the all-purpose detergent and wetting agent, would take considerable time and space. Broadly speaking, Santomerse No. 1 is worth investigating in any operation requiring a detergent, wetter, penetrant, emulsifier or dispersant.

Santomerse No. 1 is an alkyl aryl sulfonate compound with a minimum of 40 per cent active ingredient. It is an efficient detergent, which makes abundant suds in hard or soft, hot or cold water. It is effective in acid or alkaline solutions.

For further information on Santomerse No. 1, mail the coupon.

FOR YOUR LIBRARY

Timely Monsanto publications, listed below, will be sent free to users of chemicals. Use the convenient coupon to indicate the items you want.

* * *

Bulletin No. O-63—Laboratory and field studies of para-dichlorobenzene as a volatile fungistat.

* * *

Technical Bulletin No. O-D-601—Flame-resistant hydraulic fluid, OS-16.

* * *

Technical Bulletin No. P-28—Fire Retardant B for textiles.

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MONSANTO
CHEMICALS for PLASTICS

SERVING INDUSTRY . . . WHICH SERVES MANKIND

SEND INFORMATION: ☐ Santophen 1. ☐ Aroclor 1248. ☐ Inhibitor 038. ☐ Santomerse No. 1. ☐ Santicizers 141, B-16, E-15. ☐ Plasticizer Technical Service.

SEND LITERATURE: ☐ Bulletin No. O-63. ☐ Bulletin No. O-69. ☐ Bulletin No. O-D-601. ☐ Bulletin No. P-28. ☐ Bulletin No. P-130. ☐ Folder, Ethavan. ☐ Folder, Vanillin. ☐ Folder, Coumarin. ☐ Book, Monsanto Plasticizers.

SEND SAMPLES: ☐ meta-Chloroaniline. ☐ meta-Chloronitrobenzene.

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1703-K South Second Street, St. Louis 4, Missouri

Please send, without cost or obligation, material indicated at the left.

Name.....Title.....

Company.....

Street.....

City.....Zone.....State.....

commercially pure fatty acids...

(concentration of 90% or above)

Today, you don't have to buy a mixture of fatty acids to get the one you really want. Now, you can select a pure Neo-Fat fatty acid, tailor made to fit your exact needs. Armour's new chemical plant utilizes the Armour-developed *fractional distillation process* to separate crude fatty acids into their component acids, with a degree of purity never before possible (concentrations of 90% or above). This means you can now select the specific fatty acid you desire—without taking an equal or greater percentage of other acids which may contribute nothing to your formulation.

If you are interested in a fatty acid tailored to meet your requirements, send us your specifications for prompt quotation on price and delivery.

Take the guess work out of your fatty acid buying . . . always specify Armour Neo-Fats. They're economical because they're tailor made for your use.

Neo-Fat 7 (Caprylic Acid)

Mean Molecular Weight	145.7
Titer	13.0°C.
Iodine Value (Wijs)	0.8
Neutralization Value	385.0
Color...Water White	Odor...Characteristic

Typical Composition

Caprylic Acid	90.0%
Caproic Acid	3.0%
Capric Acid	7.0%

Neo-Fat 9 (Capric Acid)

Mean Molecular Weight	173.3
Titer	30.0°C.
Iodine Value (Wijs)	1.2
Neutralization Value	323.7
Color...White	Odor...Characteristic

Typical Composition

Capric Acid	90.0%
Lauric Acid	7.0%
Caprylic Acid	3.0%

Neo-Fat 11 (Lauric Acid)

Mean Molecular Weight	203.0
Titer	37.8°C.
Iodine Value (Wijs)	1.0
Neutralization Value	276.0
Color...White	Odor...Trace

Typical Composition

Lauric Acid	90.0%
Myristic Acid	9.0%
Unsaturated Acids	1.0%
Capric Acid	Trace

Neo-Fat 13 (Myristic Acid)

Mean Molecular Weight	226.0
Titer	37.8°C.
Iodine Value (Wijs)	2.0
Neutralization Value	248.0
Color...White	Odor...Characteristic

Typical Composition

Myristic Acid	90.0%
Lauric Acid	4.0%
Palmitic Acid	4.0%
Unsaturated Acids	2.0%

Neo-Fat 1-56 (Palmitic Acid)

Mean Molecular Weight	258.0
Titer	56.0°C.
Iodine Value (Wijs)	3.0
Neutralization Value	216.0
Color...White	Odor...Trace

Typical Composition

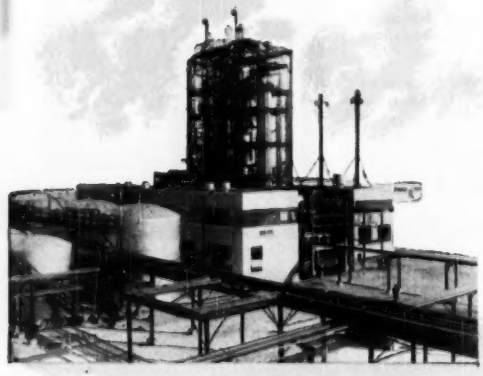
Palmitic Acid	90.0%
Oleic Acid	4.0%
Stearic Acid	6.0%

Neo-Fat 1-65 Stearic Acid

Mean Molecular Weight	282.5
Titer	67.0°C.
Iodine Value (Wijs)	3.0
Neutralization Value	198.0
Color...White	Odor...Trace

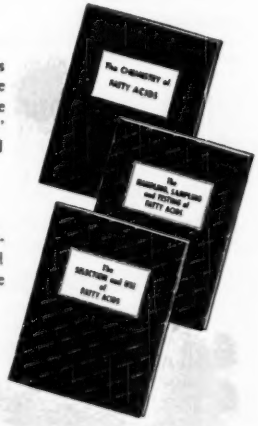
Typical Composition

Stearic Acid	90.0%
Palmitic Acid	6.0%
Oleic Acid	4.0%



Fatty acids are discussed in a series of technical booklets entitled, "The Chemistry of Fatty Acids," "The Selection and Use of Fatty Acids" and "The Handling, Sampling and Testing of Fatty Acids."

Write today (on your business letterhead, please) for this literature and other technical information . . . free upon request.



ARMOUR *Chemical Division*

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tops in hydrophilic colloids—

HERCULES®

CMC

CELLULOSE GUM

TYPICAL APPLICATIONS



Cellulose gum (CMC, sodium carboxymethylcellulose) is unsurpassed among water-soluble colloids for its combination of suspending, thickening, stabilizing, and film-forming properties. In Hercules purified cellulose gum (food, cosmetics, and pharmaceutical grades) you are assured of a product which is consistently uniform and meets in every way the standards of such authorities as The Toilet Goods Association, Inc.

Containing 99.5+% sodium carboxymethylcellulose, dry weight basis, Hercules cellulose gum is suitable wherever a hydrophilic colloid is required, including pharmaceutical preparations designed for human consumption.

Send for technical data and testing sample.

HERCULES POWDER COMPANY
992 Market Street, Wilmington, Delaware



BINDER
easily formed into pharmaceutical tablets and pills



SUSPENDING AGENT
for toothpaste and calamine lotions



THICKENING AGENT
and base for jellies, and ointments

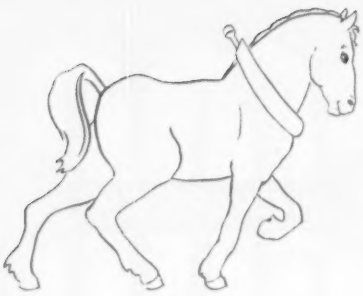


WATER SOLUBLE FILM-FORMER
for protective hand creams and dressings



EMULSION STABILIZER
for mineral and vegetable oil emulsions; hand and face lotions

CM50-4



Onyx BTC*...

Cationic Germicide and Deodorant

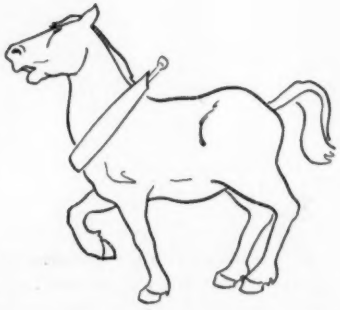
By Itself ... is the most dependable quaternary for sanitization purposes.

- the original cationic germicide, thoroughly tested and documented.
- no toxicity or skin irritation to worry about.
- no concern about shelf life.
- a 50% aqueous solution of alkyl dimethyl benzyl ammonium chloride ... stable, uniform, dependable.

You'll never go wrong when you specify BTC* for your sanitizing and deodorizing formulations. For the complete story, write for the BTC* booklet.

Neutronyx 600...

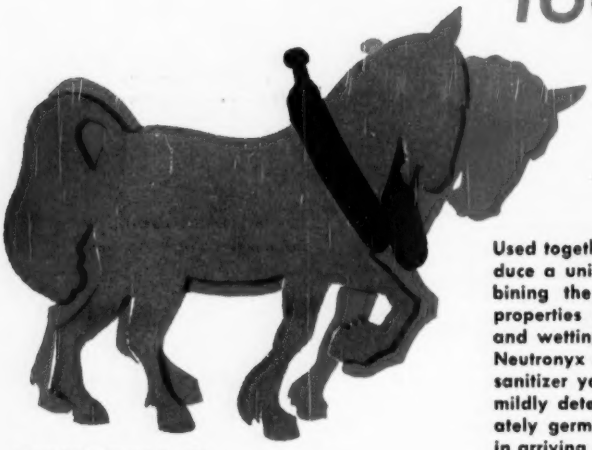
Non-Ionic Detergent and Wetting Agent



By Itself ... one of the most effective and dependable detergents, wetting and emulsifying agents now available.

- Compatible with acids, alkalies, electrolytes, hard water and cationic and anionic surface-active agents.
- Usable at elevated temperatures because of its low volatility.
- Chemically stable. Will not deteriorate in storage.
- An aromatic polyglycol ether with a host of potential uses in the formulation of industrial and household cleaners, and for economical wetting and emulsifying action wherever required.

You won't go wrong when you specify Neutronyx 600. Write for the 600 booklet.



TOGETHER...

Detergent Sanitizers to meet your special requirements!

Used together, Onyx BTC* and Neutronyx 600 produce a unique series of detergent sanitizers, combining the superior germicidal and deodorizing properties of BTC* with the effective detergency and wetting, emulsifying and dispersing action of Neutronyx 600. You can get any type of detergent sanitizer you want, from the strongly bactericidal, mildly detergent, to the heavily detergent, moderately germicidal. We are ready to work with you in arriving at the combination which will best meet your needs.

*Trade Mark Reg. U.S. Pat. Off

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—for products or processes requiring non-crystalline silica of high purity—

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Davison has the experience and knowledge to chemically control silica gel production for precise uniformity of structure. Such silica gel characteristics as pore size, density and internal surface area are altered to assure maximum benefits in your application.

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- Chemically and physically inert
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- Surface areas up to 1000 square meters per gram

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- Dehydrating agent in aluminum paint
- Insecticide diluents
- Increasing porosity of medicinal tablets
- Selective separation of pharmaceuticals and hydrocarbons

Typical Analysis on Dry Basis

99.71% pure SiO_2

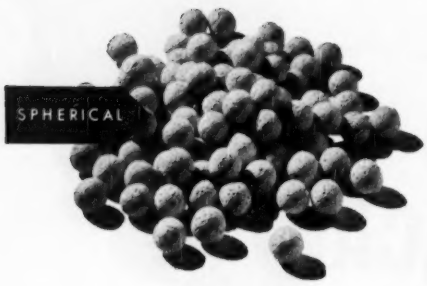
Where cost of materials is a primary factor and contaminant compounds will not affect your process, Davison silica gel can be supplied in less pure form. The material is also available in greater degrees of purity for extremely sensitive processes.

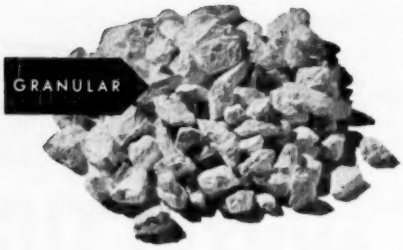
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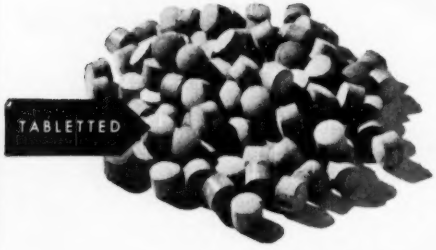
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Description: Dimethyl Sulfate is a clear, colorless liquid, with a boiling point of 188.8°C. (371.8°F.). It has high reactivity toward active hydrogen compounds, and is readily hydrolyzed by water.

Uses: Dimethyl Sulfate is used as an intermediate in making vanillin for flavoring food, and in making caffeine, codeine, antipyrine and other pharmaceuticals. It is also used to manufacture dye intermediates such as anisole and methyl hydrazine sulfate, and in making the photographic developer, p-methylaminophenol.

This reactive intermediate may provide the answer to your synthesis problem

Dimethyl Sulfate is an effective methylating agent for the preparation of methyl-substituted oxygen, nitrogen or sulfur compounds. It is already being used profitably in the food, pharmaceutical and textile fields, and has a wide range of possible uses in other industries.

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In addition to Dimethyl Sulfate, the Polychemicals Department supplies over 100 chemicals and plastics to all types of industries. Because of this unusually broad coverage, your Polychemicals representative is familiar with a variety of chemical processes in many industries. Make the most of his background by calling him in for assistance in using any of these chemicals which may seem promising to you.

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LEATHER Hydroxyacetic Acid • "Hypalon" Synthetic Resins • "Lorol" Fatty Alcohols

MACHINERY "National" Anhydrous Ammonia • "Opalwax" Synthetic Wax

METALS Hydroxyacetic Acid • Methanol • "National" Anhydrous Ammonia

PAPER Adipic Acid • "Alathon" Polythene Resins • "Arboneeld" Urea-Formaldehyde Compositions • Du Pont Crystal Urea • Hydroxyacetic Acid • "Lorol" Fatty Alcohols • "Mycoban" Sodium and Calcium Propionate • "National" Anhydrous Ammonia • "National" Aqua Ammonia • Nylon-Type 8

PETROLEUM Diglycolic Acid • Du Pont Crystal Urea • Hydroxyacetic Acid • "Lorol" Fatty Alcohols • Methanol • "National" Anhydrous Ammonia • "National" Aqua Ammonia

PLASTICS Adipic Acid • "Arboneeld" Urea-Formaldehyde Compositions • Du Pont Crystal Urea • "Hexalin" Cyclohexanol • "Hylene" Plasticizers • "Hypalon" Synthetic Resins • Methanol • Nylon-Type 8 • Propionic Acid • 3,5,5-Trimethylhexanol • "Teflon" Tetrafluoroethylene Resin • Nylon Molding Powders • Polythene • "Lucite" Acrylic Resin

RUBBER Du Pont Crystal Urea • "Hypalon" Synthetic Resins • "Lorol" Fatty Alcohols • Nylon-Type 8 • "Opalwax" Synthetic Wax • 3,5,5-Trimethylhexanol

TEXTILES Adipic Acid • "Alathon" Polythene Resins • "Arboneeld" Urea-Formaldehyde Compositions • Du Pont Crystal Urea • Hydroxyacetic Acid • "Hypalon" Synthetic Resins • "Lorol" Fatty Alcohols • Methanol • "National" Aqua Ammonia • Nylon-Type 8 • "Tyze" Resin Textile Size

WOOD "Arboneeld" Urea-Formaldehyde Compositions • Du Pont Crystal Urea

**This is only a partial listing of the Polychemicals Department products which have applications in the industries shown here.*

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TECHNICAL BULLETINS AVAILABLE NOW on All Chemicals and Plastics Listed Here for the Many Industrial Fields Served by the Polychemicals Department

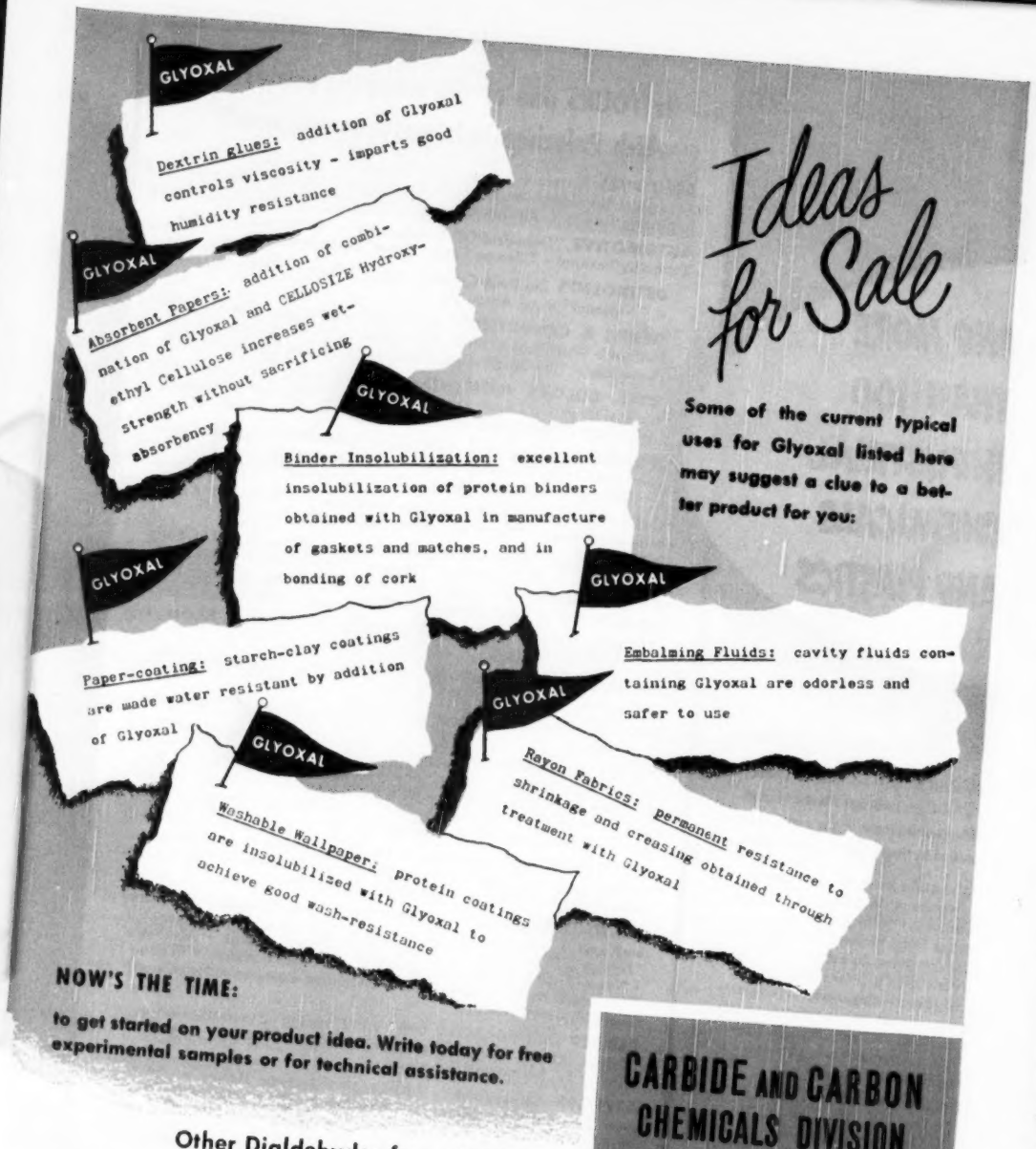
It is quite possible that many of your questions about Du Pont Dimethyl Sulfate and other Polychemicals products are answered in technical data available. Or your Du Pont Polychemicals representative can help you get the answers through our Sales Development facilities. You can contact him through the district office nearest you—

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818 Olive St., St. Louis 1, Mo.
7 S. Dearborn St., Chicago 3, Ill.
140 Federal St., Boston 10, Mass.
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$OCHCH_2CH_2CHO$	Succinaldehyde—in form of its inner acetal (diethoxy tetrahydro furane)

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Chemical Industries

THE BUSINESS MAGAZINE OF THE CHEMICAL PROCESS INDUSTRIES

Newsletter,
October, 1950

More polyethylene production is planned by Du Pont in Texas, presumably at the Sabine plant. Source of ethylene has not been definitely decided upon, but chances are that it will come from a large new installation being planned for Port Arthur. Bakelite's new polyethylene unit is expected to be producing next July.

A rise of about 10% in domestic citric acid capacity is promised by Miles Laboratories' new submerged-fermentation plant now under construction at Elkhart, Ind. The plant will be operated by Sumner Chemical Co., Miles's wholly-owned chemical manufacturing subsidiary. Miles formerly bought the acid for its Alka-Seltzer production. The process has been tested for a year in a pilot-plant unit. Miles's process, as mentioned, is deep-fermentation, whereas Pfizer's is thought to be shallow tray fermentation. Pfizer is currently the only synthetic producer, but citrus processors recover the natural product from waste fruit.

* * CI * *

You can expect to hear more about a potent new insecticide, Heptachlor, now being tested by Velsicol Corp. Closely related to chlordane, it has shown excellent results against roaches, flies, mosquitos, grasshoppers, soil-infesting insects and cotton pests. While it has residual action, it is more volatile than many currently used synthetics and is thus expected to alleviate the problem of toxic residues on edible crops.

A combination of a fatty amine with acrylonitrile, tradenamed Duomeen T by its maker, Armour & Co., has recently been put on the market as an asphalt additive. Having stronger cationic properties than Armour's other fatty amines (Armeens), it enhances the bonding between the asphalt and gravel or other kindred materials and thus prevents water erosion of roads. It is used in small concentrations (about 1%) and is sold to asphalt makers for 46¢/lb.

Another Armour chemical, Arquad 2C (a long-chain quaternary ammonium salt), is now being field-tested as a corrosion inhibitor in secondary oil recovery. A few parts per million of the chemical not only prevents corrosion of the shaft but also inhibits growth of bacteria that plug up the pores in the oil sands.

* * CI * *

Heico, Inc., Stroudsburg, Pa., is expanding pilot-plant production of sodium ammonium thiosulfate to an annual 4,500 tons. (Process is covered by

the company's U. S. Patent No. 2,475,616.) The new chemical has several advantages, thinks Heico, that will enable it to compete with sodium thiosulfate ("hypo") as a photographic fixing agent: faster, more soluble, stable up to 180 F.

Universal Match Corp. is now making water-resistant book matches at its St. Louis plant. The striking surface is chemically treated rather than the match heads. During the war the company made waterproof stick matches for the armed services, but peacetime demand is for book matches.

* * CI * *

Shortage and NPA control (see p. 585) of glycerin has caused consumers to scurry for substitutes. That may be a contributing factor in Atlas Powder Co.'s current expansion of sorbitol capacity. A 50% increase was completed early this month, and an equal additional increase is slated a few months hence.

First of a group of fungicides to be manufactured by Velsicol Corp., Chicago, is 2-methyl-1,4-naphthoquinone. Useful also as a vitamin K5 (2-methyl-1,4-diaminonaphthalene) intermediate, the compound is now being made in pilot-plant quantities. It has vitamin K activity in itself, but it has been tested and recommended primarily as a fungicide.

* * CI * *

Shortage of melamineresin is due to curtailment of power available to North American Cyanamid Ltd. (American Cyanamid Co. subsidiary), Niagara Falls, for making calcium cyanamide, precursor of melamine and several other nitrogen derivatives--hydrogen cyanide potassium cyanate, dicyandiamide, acrylonitrile, etc.--made by American Cyanamid.

Now being introduced by Velsicol Corp. is a new hard wax, Syrex 200, suitable for buffing polishes, self-polishing floor wax, water-repellent formulations, and floor sealers, and as a replacement for costlier waxes (Syrex is in the 20¢-25¢/lb. range) in marking crayons, carbon paper, inks, and insulation compounds. Light amber in color, it melts at 180-190 F.

* * CI * *

Here and There:

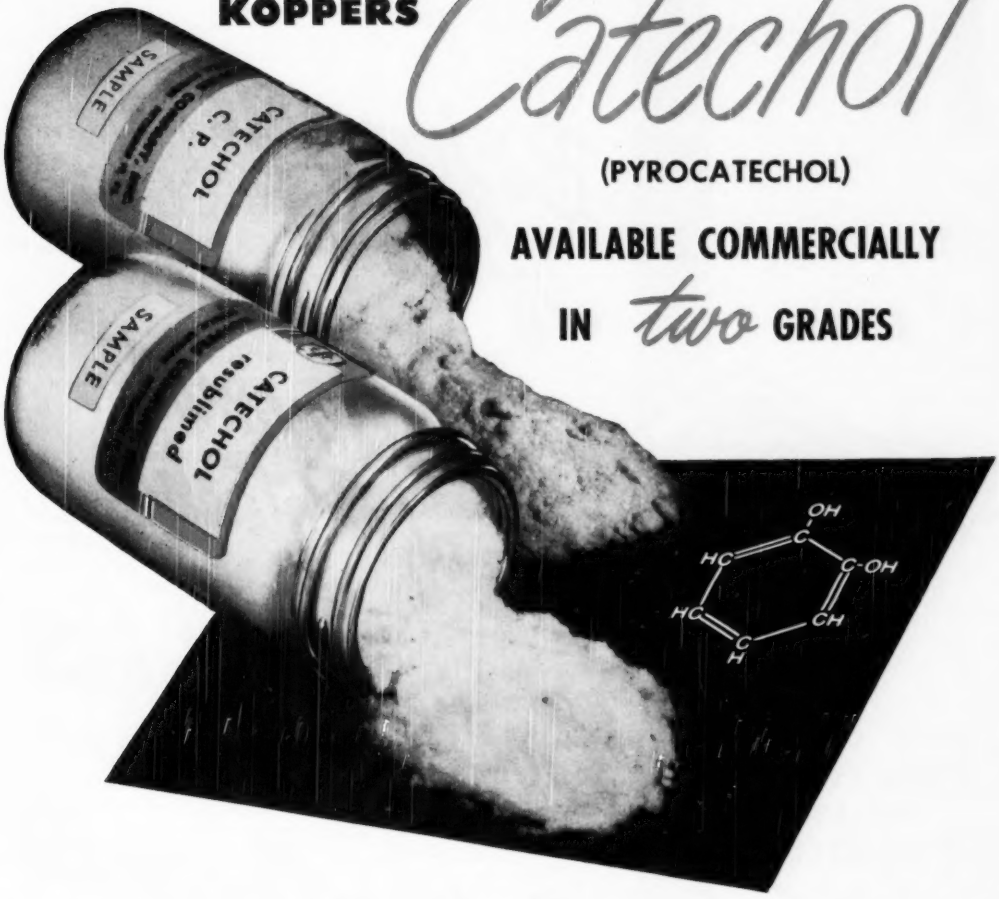
New use for sequestering agents of the ethylendiamine-tetra-acetic acid type (Alrose, Bersworth, etc.): decontamination of radioactive materials....Pennsylvania Salt Mfg. Co. is bringing in a new agricultural chemicals plant at Montgomery, Ala....Shell Chemical Corp. is again expanding ammonia capacity on the West Coast....Increased demand for Vicara, Virginia-Carolina's vegetable protein fiber, has necessitated a substantial upping of output at the Taftville, Conn., plant....Shut down for some time, the caustic-chlorine unit at Denver's Rocky Mountain Arsenal is to be reactivated by Julius Hyman & Co. this month for limited production....Improved moisture resistance of cellophane is the goal of research to be carried out in two new buildings, costing $500,000, slated for completion next March at Du Pont's Old Hickory (Tennessee) plant.

The Editors

KOPPERS *Catechol*

(PYROCATECHOL)

AVAILABLE COMMERCIALLY IN *two* GRADES



● Facilities of Koppers Chemical Division make this industrially important chemical readily available to you in two commercial grades — C.P., with a minimum purity of 99.0% and Resublimed, with a minimum purity of 99.6%.

Catechol currently has a wide range of important applications—in preparation of dyestuffs and medicinals, in photography, as an oxygen-removal agent, in specialty inks and in the production of antioxidants for rubber and lubricating oils.

Resublimed Catechol is largely used for medicinal, pharmaceutical and photographic purposes, while the C.P. grade is usually suitable for most other chemical manufacturing and processing uses.

The ready availability of this once-scarce organic chemical, together with the wealth of background information on its properties resulting from extensive investigation, recommend it for further study in your laboratories.

FOR FURTHER INFORMATION . . . write for your copy of Bulletin C-9-127. It contains full details on the properties, uses and reactions of Catechol. A four-ounce sample of Catechol will be sent to recognized laboratories when requested on their letterheads.

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A NEW RESEARCH CHEMICAL SERVICE

by **W. ALEC JORDAN, Editor**

THERE'S A RESPECTED axiom of the chemical industry which neatly categorizes satisfaction and stagnation as synonyms. Any chemical maker, or any chemical consumer, who is smugly satisfied with his products and processes, who ignores the basic need of constant appraisal, evaluation and research, stagnates.

The same precept is held, of course, by those of us who, by our publishing activities, strive to serve the chemical process industries. That is why CI has long maintained a continual and continuing research program—a program designed to determine the important needs of chemical men—your needs—and how we may serve you better in your day-to-day activities. One of the fruits of that research is in your hands this month—the new Research Chemicals department of the Buyer's Guide.

This issue of Chemical Industries is, as you know, a double edition divided into two main sections. The first section, our regular monthly issue, you are now reading. Section two, which accompanies it, is an 800-page "chemical encyclopedia"—the 26th revision of CI's annual Buyer's Guide. Therein this year is included an important and completely new feature—our first compilation of several thousand chemicals, both organic and inorganic, *available only in research quantities*, together with the names of their manufacturers.

This new feature is designed for your use. It includes 2,904 compounds and runs a full 12 pages.

The creation of the Research Chemicals Department stems directly from dissatisfaction—the healthy dissatisfaction of CI's editors with previous editions of the Guide.

The fundamental purpose of the Guide had been, for some twenty-five years, clearly defined: To assist its users to locate sources of supply for *commercial* chemicals and raw materials, chemical specialties, processing equipment and containers. (Of interest to the statistically-minded: The new edition lists 3,544 *commercial* chemicals and raw materials, 1,003 chemical specialties, 1,542 types of equipment and containers.)

Every year new listings were added as new products attained commercial stature. In some cases, the period between the development of a new chemical and its becoming industrially important was short and, correspondingly, it became eligible for inclusion in the Guide at an early date. (DDT and penicillin, for instance, "made" the Guide while the first plants were still being built.) But in many other cases the "commercial" requirement constituted a real limitation on the service the Guide could render.

Apparently, with the swelling stream of research chemicals pouring from the nation's laboratories, a new, broader service might well be inaugurated. Field surveys confirmed the editors' belief. So did an analysis of the hundreds of requests for assistance which are received regularly by CI's Technical Data Service Bureau. An extraordinarily high percentage of these inquiries were of one type: where to buy rare, or unusual, chemical compounds.

Last Fall, former editor Robert L. Taylor assembled a special staff to develop the Research Chemical feature. Questionnaires were mailed to all chemical producers of which we had record. The returned questionnaires, processed through IBM machines, were collated. The result, in the new Guide, is a listing of research chemicals running the gamut from Acetaldehyde Sodium Bisulphite to Zinc Thiocyanate.

This initial compilation is, to our knowledge, the only such work in existence. It is as comprehensive and accurate as care and diligence could make it. However, although IBM machines may not be fallible, editors most certainly are. Quite possibly some mistakes have been made.

You, as a user of the Guide, can best appraise its attributes and shortcomings. Work is already under way on next year's edition. That is why, now, we solicit your comments, criticisms, suggestions.

They will help us to make the entire Guide, and especially the new department, of greater service and usefulness to you.



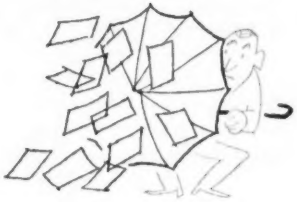
Believe us, it's no fun having too much business.



We're swamped with orders—a dazing, devastating deluge. This is not due to war orders but to an accelerated rate of industrial and consumer buying.



Naturally, our regular, old-time customers come first. But, alas, everybody is out after us for material.



No one dislikes this embarrassing situation more than we do. We hope it won't last very long.



Our production men are working themselves to a frazzle to increase output. More material will be coming your way. Meanwhile, remember that we are treating everyone as fairly as possible.



Remember, too, that we love you. For being angels of understanding and cooperation, we think you deserve a halo.

INDUSTRIAL CHEMICAL DIVISION
COMMERCIAL SOLVENTS CORPORATION
17 East 42nd Street, New York 17, N. Y.

What's new

BUTTER AND GUNS

Government and industry chiefs work overtime seeking ways to sate defense and civilian chemical needs. Both must be served . . . but how?



WASHINGTON: Midnight oil brings haze.

A GROUP of men whose names sound like a "Who's Who" of the chemical process industries descended late last month upon Washington, at the invitation of W. H. Harrison, newly appointed head of the equally new National Production Authority. Object of the meeting: to provide a get-acquainted session for government and industry men. Subjects: the tight demand-supply situation in chemicals, tankcar shortages and NPA provisions for expanding production.

Expansion is Consensus

Both sides agreed that production capacity must be expanded if domestic and military needs are to be met. By this they meant a simultaneous 100% supply for each. This is directly in line with current Washington thinking on the whole subject of production control: "Butter and guns both . . . we can do it!"

The subject of tankcar shortages plowed worry-furrows in brows on both sides of the table; all felt this situation will get worse before it improves. Industry representatives suggested that the World War II arrangements on tankcars, which included efficiency measures to reduce long hauls of empties, could be revived.

But this first meeting was somewhat shallow in accomplishment, mainly because no one was able to state how much expansion of chemicals production would be required. Industry knows the civilian needs which consume practically all of its present output. But business men can't determine defense requirements. Harrison, who is also president of International Telephone and Telegraph, explained that "the full impact of the accelerated defense program on the availability cannot be anticipated at this time." Officials of NPA added that at the time of the meeting the Defense Department had not submitted breakdown figures for the planned military force of 3 million men.

Everything depends, of course, on the two big "K's" Korea and the Kremlin. American successes in the first may upset or delay planning by the latter. But there is every evidence that the NPA will continue its existence and caution-based controls for some time—until or unless another global war boosts it into the driver's seat of all the nation's production.

The NPA will operate as a primary unit of the Department of Commerce. In fact, the controls agencies that comprise it were lifted bodily out of the Office of Industry and Commerce and placed under the direction of Harrison. But according to the master plan, insiders claim that men will be brought in from industry to staff certain key posts. Harrison and Secretary of Commerce Sawyer are now holding meetings with various industrial leaders to pick individuals acceptable to both the government and the industries concerned.

The chemicals division of the NPA is at present headed by C. C. Concannon, veteran government chemical official and head of the Chemicals Division of the Department of Commerce. But due to the pressure of Concannon's other duties, it is possible that an industry man will be named shortly to relieve him of NPA chores. This seems to be the prescription that will be used along the rest of the line; an industry man will almost surely be brought in to head up each of the groups charged with the control of specific items.

Business as Usual

At this writing the NPA chemicals group is concerned only with industrial alcohol (ethyl); benzene (benzol); caustic soda in all grades, liquid and solid; chlorine, gaseous and liquid; glycerine, crude and refined; and soda ash, all grades.

But even on these there is a tendency to go slow and keep a "business as usual" attitude as much as possible. There is no desire, no intention and no staff available to step in and do any great immediate allocating of basic chemicals. As one veteran Washington reporter put it, "Even the thought gives the NPA staff the shudders."

The Department of Defense has

been doing some heavy thinking about the military future of chemicals, but most of this planning has been devoted to the organization of procurement facilities. And in a recent speech in Chicago before the Armed Forces Chemical Association, Major-General Anthony C. McAuliffe, of the Chemical Corps, revealed some interesting facts and figures on the whole situation.

When the Korean situation broke, he said, the annual appropriation of the Corps for the fiscal year 1951 was pending before the Senate. The House had already approved an appropriation of $36 million which was based on keeping defense expenditures for 1951 at about the same level as 1950. But the new demands in Korea made President Truman request $10 billion in supplemental appropriations for the Department of Defense to support combat operations. Of this amount, McAuliffe said that $31 million was earmarked for the Chemical Corps for the main purpose of replenishing shortages. But, he added, these funds will not be available for contract purposes until approved by Congress.

Procurement, Allocation, Production

The general who also made headlines in World War II went on to explain that the overall responsibility for the industrial mobilization program of the Department of Defense rests with the Munitions Board. Based upon the experience gained in World War II the design of the military aspects of this program are listed in four categories: maintenance of reserve plants, acquisition and maintenance of essential machine tools and manufacturing equipment, planning studies and industrial preparedness measures, and planning within the Department of Defense.

Under this plan the Chemical Corps is authorized to procure all chemical supplies, not only for other arms and services, but also for the Navy and Air Force. This means that the Chemical Corps is charged with meeting the chemical portions of the overall strategic plans of the Joint Chiefs of Staff, a responsibility that brings greater procurement efficiency for defense purposes but which also places a huge load on the shoulders of the Chemical Corps.

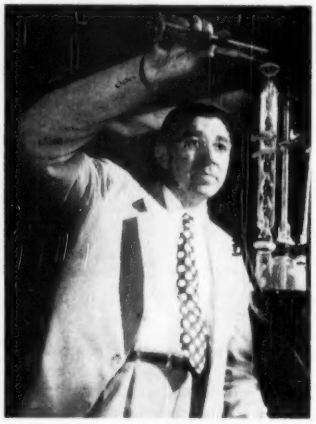
But though the load of procurement may be on the Chemical Corps, and the load of allocation on the NPA, the load of production will land right where it always does—on the broad shoulders of the chemical process industries.

ACRYLIC GOES DRY

First commercial production of dry acrylic acid promises to add new names to the roster of acrylate manufacturers.

BIG SPLASH in product development this month was made by the opening of a new plant devoted exclusively to the production of glacial acrylic acid. Formerly available in limited quantity at prohibitive cost, this problem child has finally met its masters in B. F. Goodrich Chemical Co.'s research laboratories.

Acrylic acid is no novelty to the chemical industry. Although industrial acrylics are of fairly recent origin, the acid itself was first manufactured over a century ago. Never achieving widespread manufacture in the United States, interest remained concentrated among relatively few manufacturers.





GRESHAM AND WARNER: Water was a nuisance.

On the other hand, the Germans devoted a great deal of attention to acrylic and came up with many interesting applications to such products as thermosetting resins, leather finishes and printing inks. However, neither in this country nor abroad was the acid prepared in its glacial form until early 1949 when Monomer-Polymer, Inc., offered it in research quantity at $19 per 500 grams.

Time Saver

Agreement over the advantages of a dry product was universal: it could be esterified directly with an alcohol, eliminating the time-consuming ester-interchange procedure; it could be used as a monomer in polymerizations conducted in organic solvents; it could be used in bulk polymerization for resin casting; its salts could be prepared more easily; it would be more stable and economical in shipment and storage. The big question was, How to make it?

Ever since 1944, when research under the supervision of genial research director Tom Gresham terminated in a patent on β-propiolactone, Goodrich has been eyeing the possibility of entering the acrylic market. Made from formaldehyde and ketene (*CI, Dec. 1947, p. 977*) and easily converted by a patented pyrolytic isomerization of its polymeric form to the desired product, β-propiolactone provided the chemical approach to the problem, but the difficult technological hurdles were yet to be cleared. Engineering know-how mobilized under the able leadership of A. B. Japs and plant manager, Harry Warner, did the trick and this September glacial acrylic was pouring out of the firm's Avon Lake General Chemicals Plant in tonnage lots.

β-Propiolactone is not the only solution to the acrylic puzzle. A Reppe synthesis using cobalt carbonyl to catalyze a reaction of acetylene, carbon monoxide and water is another possibility, but as yet no one in this country has taken this idea out of the laboratory. It is interesting to note that a method for production of cobalt carbonyl has recently been patented by the Rohm and Haas Co.

In the Army

The new product is expected to find wide application in the preparation of high-molecular-weight acrylate monomers, which are used in the manufacture of pressure-sensitive adhesives, rubber and plastic modifiers, surface coatings and lubricant additives. In addition, glacial acrylic acid facilitates the preparation of such solid mono-

mers as calcium acrylate, now undergoing Army tests as a soil hardener for use in the high-speed construction of roads and emergency airfields. Other outlets for acrylic derivatives are as textile sizes, in printing inks and leather finishes.

Selling in ton lots at $1.15 a pound and in drums at $1.25, the material is more than 97% pure and contains less than 1% water. Although the cost will undoubtedly be reduced substantially as production increases, the new price is a far cry from the old rate of $19 a pound.

Expansion of the acrylate field will in all probability follow large-scale introduction of this new intermediate. Making the most of the numerous advantages of the dry product over its damp predecessor, many firms will find it comparatively easy to get their foot in the acrylate door.

VISIBLE SUCCESS

Small-town manufacturer is making "safety first" more than a slogan with popular eyeglasses cleaner and defogger.

AMERICA'S 71 million eyeglass wearers as well as scores of industrial organizations are all potential customers of the Wilkins Co., Cortland, N. Y. Formed in 1937 for the sale of laboratory products, this modest enterprise has come up with a couple of products which promise to put Cortland on the map.

It all started with a lens cleaning preparation which a chemist friend of president Ralph R. Wilkins had developed and was trying to market. Normally a cautious fellow, unspectacled Mr. Wilkins took a sample of the fluid home to his wife to try on her own glasses. She approved and so did the neighbors. Inquiries on where to buy the product sparked the business instinct in Wilkins, and he was soon busy bottling the recipe in his cellar. Early in 1940 he started distributing the formula from his cellar stockpiles, tagging it K-Lens-M. Much to the delight of all concerned, the product found an eager market and Wilkins was in business.

Out of the Cellar . . . .

There is nothing very new or revolutionary in the idea of spectacle cleaners. Lots of them have appeared on the market through the years, generally with little success. Dow-Corning's silicone tissues have been a notable exception, but it would be difficult to name another. Although



RALPH R. WILKINS: His wife approved.

K-Lens-M did as good a job as any, its real boost came not from the astigmatic public, but from industrial safety engineers who seized upon it as the key to the problem of getting workers to wear the goggles provided for their protection. During World War II, the safety people approached Wilkins with the idea of putting his lens preparation into a cabinet complete with sprayer and wiping tissues. The hope was that such an innovation would make it easy for anybody to keep his goggles clean, thereby promoting more widespread use of visual protective devices. The scheme went over like oil on water and the new dispensing units were rapidly taken up by plant owners large and small, including a major Detroit automotive manufacturer and one of the world's largest chemical companies. The printing industry found an interesting use for the cleaner in removing ink mist from the glasses of press workers, and a sizable volume of the potent potion is now allotted for that purpose.

Early in 1950, the safety engineers again called on their erstwhile benefactor. This time for a certain "something" that would keep optical surfaces free of blinding fog that made clear vision a virtual impossibility in many jobs requiring the use of goggles and shields. The only hitch was, nobody had ever perfected a material of this type that would stand up in actual use over any extended period of time. Undaunted, Wilkins took his problem to the big city and left it in the hands of Evans Research and Development Corp. After more than a hundred tries, the project headed by youthful Evans researcher Murray Berdick hit the jackpot, and the brand new creation came into the world bearing the name Fog-Free*.

* Trademark registered in the U. S. and Canada.

The novel product is best described as a liquid surface-active silicone composition which facilitates the formation of a durable fog-preventing film on both glass and plastic surfaces. Applied by spray and polished on the lens, the film, while effective in rendering surfaces free of fog for hours at a time, is invisible and does not impair vision. In both laboratory and field tests, Fog-Free came through with flying colors and was soon installed in the handy dispensing cabinet as a companion to its more prosaic cousin. Now in commercial production, it is doing its duty in such diversified surroundings as ice cream plants and foundries.

. . . Into the Chips

Priced at $1.50 for a six-ounce bottle, the newcomer found a tailor-made market among the sizeable Wilkins clientele in this country and Canada. Even Europe has jumped on the bandwagon with several orders from Switzerland.

Plans for further expansion, now in the making, are bringing fog-free visions of happy days to Wilkins.

ALKALI PATTERN

Conditions of soda ash strike settlement will influence future chemical labor negotiations.

COAL has its Lewis—John L., that is—but soda ash, not overlooked in the bestowal of dubious distinctions, also has its Lewis—John's kid brother A. D. (Dennie), head of the United Mine Workers' "we'll-organize-anybody" District 50.

Envious, perhaps, of his elder brother's success at wringing management concessions for the coal miners, Dennie Lewis tested his strength against Solvay Process Division of Allied Chemical & Dye Corp. (three plants: Syracuse, N. Y.; Baton Rouge, La.; Detroit, Mich.) and Diamond Alkali Co. (one plant: Painesville, Ohio). Workers at Wyandotte Chemicals Corp.'s three Michigan plants also walked out, but they returned to work after a few days to await the Lewis-Solvay pattern-setting settlement at Syracuse, the largest struck operation.

What They Asked

District 50 demands on Solvay were closely similar to those won by John L. for the miners: a funded pension ($100 monthly minimum, exclusive of social security benefits) administered jointly by company and union; substantial pay raises—reportedly 15¢

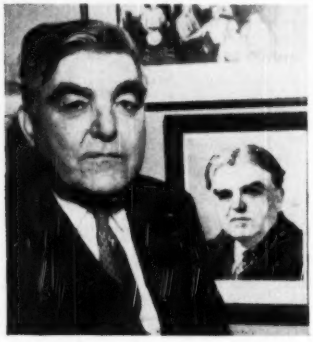
across the board; an 18-month contract; and no no-strike clause.

Solvay, on the other hand, wanted a 3-year contract with nickel raises each year together with cost-of-living bonuses; company-administered pensions with the same minimum but including social security; and a no-strike pledge.

What They Got

The compromise settlement gave the workers an immediate 10¢ raise and another nickel next June, plus a quarterly cost-of-living adjustment based on 1¢ for every point rise in the Bureau of Labor Statistics' index. The contract runs until June 12, 1952 —two years from expiration of the earlier pact. Workers voted 8 to 1 to accept the new contract.

Pensions were dropped from discussion in the final contract, but the company will improve and modify its present plan to provide minimum $100-a-month pensions for 25 years' service, the rate increasing with length of service and rate of pay. Under company control and including social security benefits in calculation of the amounts, the pension plan will provide for voluntary retirement at 65, mandatory at 70. (Provisions will be ironed out for retirement before 65.)



DENNIE LEWIS: Workers may look twice.

Diamond Alkali and the District 50 local took a look at the Syracuse settlement and settled their differences on much the same basis. Management conceded a higher minimum pension ($110) and received in turn a longer contract (three years, and another nickel raise the third year). Other provisions hewed close to the Syracuse line.

At this writing, the Solvay settlement is final only at Syracuse. The Detroit union is still negotiating its new contract, but ash production there —manned by supervisory personnel— has crept up to a third of capacity.

The Baton Rouge workers are back on the job at the union's behest, and their contract doesn't expire until this month. Since the contract was in force during the strike, Solvay wasn't obliged to make any wage concessions when the strike was called off, and the union permitted the company to refuse to rehire strikers reasonably suspected of violence during the shutdown.

AFL Throws Monkey-Wrench

No friend of either of the Lewises, the American Federation of Labor (both the Chemical Workers and Dave Beck's Teamsters) hobbled settlement efforts at Diamond Alkali by filing for a bargaining-rights election with the National Labor Relations Board. Since UMW chiefs had refused to comply with Taft-Hartley's non-Communist affidavit provision, the union was ineligible for inclusion on the ballot. UMW adherents thus had to join non-unionists and vote for "no union," and since "no union" ballots were in the majority, the "non-unionist" group with which the company settled is actually the potent but legally invisible District 50.

The AFL Chemical Workers and an independent union are reportedly preparing to petition the NLRB for a similar election at Baton Rouge. If so, negotiations now due will be postponed well beyond the contract deadline.

Policy of Attrition

At Syracuse, it looks as if Dennie Lewis followed a deliberate policy of attrition. It wasn't until the 88th day of the strike, which started in June, that the union clarified its demands. After that it didn't take long: the pension issue was dropped on the 93rd day, the union accepted the no-strike clause on the 96th day, and final agreement was reached on the 102nd day.

Whether or not the long delay strengthened the union's hand, it certainly played hob with the alkali market. Many consumers felt the pinch (*CI Newsletter, August 1950*) and recent price increases in ash and related caustic products reflect higher production costs. Light ash rose 20¢ per cwt to $2.40; chlorine jumped $3 per ton to $54; and 50% rayon-grade caustic solution went from $2.50 to $2.65 per cwt.

Boom or Bust

The Syracuse settlement will probably set the pattern at Detroit and Baton Rouge. Other chemical producers who deal with District 50—Wyandotte Chemicals and Solvay's Hopewell plant, for example—can expect similar demands when present contracts expire.

But District 50 has more than once bit off more chemical workers than it could chew. It once represented Du Pont workers at Belle, W. Va.; and was bargaining agent for the Barberton, Ohio, plant of Pittsburgh Plate Glass Co.'s Columbia Chemical Division for eleven years—from early 1948 until January 11, 1949. After four strikes during a three-year period, culminating in a 77-day shutdown in 1948, the fed-up workers voted to be represented by the independent Allied Chemical & Alkali Workers of America, Local No. 1. The new union won a contract from management that provided many of the benefits just won by Lewis at Syracuse and insured uninterrupted paychecks for three years.

In most plants the big unions do the bargaining, but over-ambitious or over-frequent bids for power could prompt the workers—like Columbia Chemicals' 1200—to look again.

FREEZE-GRINDING

Cooling tough materials with liquid nitrogen makes them easier to grind.

THE "deep freeze" was a political liability a couple of years ago, but now it's a chemical processing asset. Linde Air Products Co. researchers have come up after three years' work with a freeze-grinding technique wherein difficult-to-grind materials are frozen into submission by liquid nitrogen.

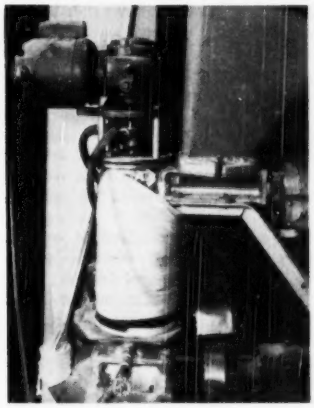
Tough polymers, like saran and polystyrene, are cooled until they become brittle; then far less energy is required to fracture them into powder. A small (5 hp) hammer mill can grind as much as 700 lb./hr. An Elizabeth, N. J., firm, Pedry Process Co., is already freeze-grinding plastics on a production basis.

No Loss, No Explosions

Resilient materials that become brittle on cooling are obvious recruits for the new technique, but other types of materials also stand to benefit: low-melting materials that would melt with the temperature rise of grinding; heat-sensitive substances like insecticides, glandular products and many pharmaceuticals; oxygen-sensitive materials that will do better under a nitrogen atmosphere; explosives; and volatile chemicals, foodstuffs, and the like.

Also, nitrogen cooling will permit higher production rates with no increase in rated grinding capacity.

In operation, liquid nitrogen from a



FREEZE-GRIND SET-UP: Toughies become submissive.

portable source is injected into a special heat exchanger installed between the feed hopper and a high-speed stainless-steel pulverizing mill. The nitrogen is sprayed directly on the material as it passes to the mill, cooling it by direct-contact heat transfer and simple evaporation. Being a liquid, it cools substances more rapidly than solid refrigerants because heat transfer is more efficient; being inert and passing off as a harmless gas, it can be used in direct contact with other materials.

The cold gaseous nitrogen resulting from evaporation is used to precool the material in the feed hopper, and thereby it also excludes the surrounding air, which would raise the temperature and play hob with oxygen-sensitive substances.

Liquid nitrogen has a higher cooling capacity than is ever needed: It can maintain a temperature of —320° F, but no material processed so far has required such extreme frigidity.

Freeze-grinding is pretty well limited to fairly expensive materials that can absorb the added cost. How much that cost will be depends on the type of product to be ground, scale of grinding operations, and proximity to liquid nitrogen supplies. Some localities are pretty well ruled out. Pulverization of granular ethyl cellulose consumes 1 lb. of liquid nitrogen per 9 lb. of final grind. A tougher material may require as much as 5 lb. of nitrogen per pound of grind, and a friable material such as 100% DDT may use only a pound of refrigerant for 10 to 20 lb. of material.

Linde's engineers have worked out a process adaptable to customers' needs, and they hope there are lots of needs that only freeze-grinding can solve.

NOW LOOK AT THREE

Tennessee Eastman Corp. adds a new water-soluble cellulosic, sodium cellulose sulfate, to compete with methyl and carboxymethyl cellulose.

EVERYONE knows that if you treat cellulose with sulfuric acid, all you get is a thick, black "gunk." Tennessee Eastman Corp.'s researchers knew it too, but they didn't accept it.

Lush Pastures

They figured out a way of reacting sulfuric acid with cellulose to give cellulose acid sulfate (with about one sulfate group to every three anhydroglucose units), which, neutralized with sodium hydroxide, gives a new, water-soluble cellulose gum, sodium cellulose sulfate—logically dubbed SCS.

Tennessee Eastman's interest in cellulose derivatives is natural enough, but for several years it had cast a covetous eye at the many customers for water-soluble cellulose gums, all of whom were perforce grazing in its competitors' lush pastures.

The Dow Chemical Co.'s methyl cellulose was one of the first and is still one of the foremost materials of this class. In late 1946 sodium carboxymethyl cellulose vaulted into prominence and a year and a half later (*CI, May 1948, p. 733*) Du Pont and Wyandotte Chemicals Corp. had joined Hercules Powder Co., the first maker, in turning out the material. Since then CMC has shot up in output and shot down in price (50-60¢ lb. then, 38¢ lb. now). While it is employed in many industries for a variety of purposes, its chief use is as a synthetic detergent builder: Over 90% of all synthetic detergents now contain CMC.

SCS's Assignment

To capture some of that market is SCS's assignment, and it appears well qualified to carry out that task.

It is logical to assume that eventually it can handily compete on a price basis. Production is still on a limited pilot-plant scale, so a current cost quotation would be meaningless. But sulfuric acid is certainly far cheaper than monochloroacetic acid, the intermediate for CMC, and the process—at least on paper—is obviously simpler. On a comparable production basis, then, it would be low-priced.

Also, like CMC, it can be made in various viscosity types. Two are presently available: medium (300-1,000 cp at 2%) and low (20-70 cp at 2%). Tennessee Eastman suggest SCS as a thickening agent. Many non-Eastman experts think that to be used thus, a cellulose gum should have a viscosity of over 1,000 cp at 1%; if they're right, Tennessee Eastman will have to offer a high-viscosity type to compete in that field.

Uses Coincide

SCS is physically and chemically so similar to CMC that its potential uses are practically the same.

One use for which SCS is not yet qualified is as a thickener and protective colloid in foods and pharmaceuticals. But that's only because toxicity tests haven't been completed. There's no reason to suspect that it might be toxic, and preliminary tests on animals—which are being fed a diet containing 20% SCS by weight—bear out the assumption that it's perfectly safe. A purified grade will be desirable for food, cosmetic, and pharmaceutical uses, of course. Present production, a technical grade, is light tan in color.

SCS will compete with CMC as a detergent builder, wherein their protective colloid action prevents redeposition of soil on the textile surface.

As a thickening agent, SCS may find its way, like CMC, into emulsion paints, ice cream, salad dressings, puddings and pie fillings; in the paper field, as a grease- and oilproof coating material; in textiles, as a warp size, finishing agent, and scaffolding fiber; in drugs and cosmetics, in the preparation of greaseless creams, lotions and ointments, and water-soluble capsules.

The Textile Research Institute,



SCS SOLUTION (3%) AND FILM: A covetous eye.

Charlottesville, Va., has come up with some data that could mean a big market for CMC, and presumably SCS too, if . . .

Researchers there found that if CMC is added in very small concentration to the rinse water when washing cotton clothes, an invisible CMC film is deposited on the fabric surface. This film catches the dirt, and at the next washing the film, together with the dirt, literally pops right off.

The Big If is double: Will the housewife or commercial laundry spend the extra pennies? And will the automatic-minded housewife disturb the automaticity of her basement Bendix to the extent of trying to add material before the rinse cycle?

Even if that bright idea doesn't pan out commercially, there's still plenty of room, however, for SCS to join battle with CMC and other water-soluble gums for the many consumer's many orders.

NYLON INSURANCE

Polyvinyl plastic adds to the life of nylon hose.

AIMED at the ladies, a product designed to preserve nylon hosiery is making its appearance in Eastern outlets after a year of sales development in California and the Southwest. Composed of a polyvinyl acetate emulsion and various other ingredients intended to coat the nylon fibers and thus reduce their susceptibility to snags and runs, it goes by the name of Plastette.

A brainchild of Earle A. Goodenow, Sr., of Oklahoma City, the product has achieved favorable results in tests conducted by a New York consulting outfit. Stockings treated with the emulsion were found to have greatly reduced snag tendency at no loss to touch or appearance.

Fifty Pairs for a Dollar

Selling for one dollar, the liquid comes in three-ounce bottles to be diluted for home use. After rinsing, nylon stockings are dipped in a dilute solution of the emulsion and thoroughly wrung out. The contents of a bottle will treat 50 pairs if used according to instructions.

A further application for this unique product is the treatment of nylon goods during manufacture to produce a fabric more resistant to the stresses and strains of everyday wear. Exploration of this possibility has already been made by a Tennessee stocking manufacturer and results, although inconclusive, are encouraging.

Produced by G-M Liquid Plastics, Ltd., of Oklahoma City and Montreal, Plastette has a fertile field for commercial development in the half billion pairs of nylons sold each year. If the gals go for this old-age insurance for stockings, vinyl emulsion makers will have another sizable specialty outlet.

YANKEE ENTERPRISE

New company, formed to manufacture high purity aliphatic derivatives, adds custom sodium reduction service.

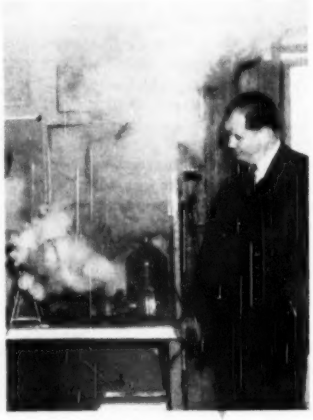
"I'D LIKE to bring some of my engineers out here to see what can be done." That was the comment of the executive of a large oil company when he saw the new sodium reduction unit that Bing Humphrey and John Wilkinson have just completed at their plant in North Haven, Conn.

A sodium reduction unit with a 400-gallon kettle doesn't sound like the sort of operation that would stir an oil company big-wig. But Humphrey and Wilkinson, hardly engineers,* not only designed the unit, but went shopping in junk yards for used steel beams, pipe, vessels, etc. (only one piece of equipment, a condenser, was store-bought) and then put it up themselves. Justly proud, but not over impressed with the accomplishment, Wilkinson surveyed the new structure, sucked on his pipe, and modestly replied, "We've got a dandy of a welder working for us though."

Doing things like that is old stuff to opportunists Humphrey and Wilkinson. When they first looked over the five-acre site on which their operations are starting to expand, they found an old well that years ago had supplied drinking water for the mules which a previous occupant (a brick company) had stabled there. Now completely unearthed and cleaned out, it is still the company's only source of process water.

How these two chemists started their manufacturing business (there are two other principal owners) goes back to the time Connecticut Hard Rubber Co. hired Humphrey, then head of the organic group at Firestone Rubber Co., to develop some chemical manufacture. Because of his background, Humphrey soon had its chemical division turning out aliphatic derivatives, many of which had never been available before in the high purity being offered.

* Bingham J. Humphrey is a Yale chemistry Ph. D.; J. W. Wilkinson's graduate work became a depression casualty after he had earned a master's degree in chemistry at Washington U., St. Louis.



B. J. HUMPHREY: Versatility and good intermediates.

Far Cry From Rubber

Humphrey induced Wilkinson, who had been a chemist for Winchester Arms, to join the company, and in 1948, when Connecticut Hard Rubber decided that the business was too unrelated to its other operations, the two took over as Humphrey-Wilkinson, Inc. After a year's progress in hired space in New Haven, they established their present plant a year ago last June.

Current expansion is a direct outgrowth of vigorously following the course charted by Humphrey—development of a versatile chemical manufacturing business by producing specialty chemicals. For production of olefins, saturated hydrocarbons and alcohols in the C_6-C_{18} range, as well as related ethers, mercaptans and thioethers of high purity, the company uses commercial fatty alcohols. These raw materials are purchased from suppliers who produce alcohols from natural glycerides—usually coconut oil—either by sodium reduction or catalytic hydrogenation. These companies strip off the alcohols they require for their own use—principally C_8's and C_{10}'s for detergent and plasticizer manufacture—and sell the remaining mixture of fatty alcohols. H-W rectifies such mixtures to produce pure high alcohols for sale as such and as raw materials to be dehydrated to the corresponding olefins, some of which in turn are also hydrogenated to saturated hydrocarbons.

Do It Yourself

Since the company has never had enough of some of these technical

grades of alcohols to rectify, particularly in times such as these when fatty alcohols are tight, it was natural for H-W to set up its own sodium reduction unit. This particular type of reduction was chosen for, according to Humphrey, it is the only way to get an unsaturated alcohol. In addition to being able to reduce its own coconut oil when conditions warrant, the company expects to investigate such materials as fish oils as sources for some alcohols that have not been commercially available. Custom reduction service—principal users are expected to be pharmaceutical and fine chemical houses, although small soapers should be interested too—should keep both the new unit and an existing 20-gallon pilot plant busy. Another unit with a 100-gallon kettle is also planned.

The new specialty organics that H-W has developed so far have found their way around the world in one-, five- and ten-pound lots. Humphrey expected such intermediates as the terminally unsaturated long-chain compounds to be well accepted, but the saturated ones have gone over big too, and in unsuspected fields. For example, Pratt & Whitney uses pure decane to standardize aviation carburetors, and most of H-W's cetane is used as a diesel fuel standard.

Fast on Their Feet

Oddly enough, biggest customers for specialty hydrocarbons are the oil companies who may some day be cutting into H-W's business. H-W's products are of the same type as those that occur in the oil layer of the Fischer-Tropsch synthesis product, and these companies have been carrying out research against the time they'll all be making synthetic fuel. Although mixtures containing such materials may soon be in abundant and cheap supply from the Carthage Hydrocol Brownsville, Texas, plant, the separation problem—the mixture contains both saturated and unsaturated aliphatics, as well as some aromatics—will be a tough one to crack. Even when this is accomplished, H-W feels that there will still be a place for it in supplying very pure materials and special molecular configurations. There is, however, the possibility of H-W's switching to Fischer-Tropsch for raw materials.

This relatively new organization's breadth of activity leaves little doubt that it can meet any threat of chemicals from synthetic fuels plants. One of its enterprises is filling tubes with ethyl mercaptan and titanium tetrachloride for use as warning devices on



J. W. WILKINSON: Safety signals and mules.

roller bearing equipment. These are standard equipment on most railroads, giving a smell-and-smoke alarm of a "hot box" to the crew before a wreck can occur. At the other extreme is H-W's development work with reactions of maleic anhydride and olefins to prepare alkyl and alkenyl succinic acid anhydrides with various side chain lengths from C_6 to C_{18}. Some of these have found application in modifying cellulosic materials and as oil additives. In such a range of unrelated operations, there's plenty of room for two guys who can build their own plant.

WITHOUT SUBSIDY

Du Pont expands neoprene production capacity to meet "peacetime" demands.

PRODUCTION of all types of synthetic rubber is booming, but neoprene's boom differs from the rest. The others are approaching their wartime peak under the aegis of government subsidy, while neoprene is at its wartime peak (rated capacity 60,000 long tons per year) and currently undergoing a sizable expansion without benefit of Washington props. Plant expansion is proceeding in two steps: Such bottlenecks as acetylene loss (in the form of divinylacetylene) are being broken first, and construction of totally new capacity is scheduled to get under way in the near future.

New Bloom

No single new use can be credited with this latest blooming of the $60-million-per-year research flower planted by Fr. Nieuwland of Notre Dame in the early '30s and assidously cultivated by Dr. E. K. Bolton and other Du Pont researchers since that time.

At first glance one would assume that neoprene is being expanded to serve as a substitute for other rubbers. This is not the case. (Its only sizable use in tires is as the rubber content of white sidewalls.) Rather, its markets depend on superior resistance to checking upon long-time exposure to light and air, and excellent resistance to solvent deterioration. Impinging on neoprene's field are GR-N and various vinyl polymers, but most other plastics and rubbers aren't competitive.

The more than 300 accounts to which Du Pont sells neoprene provide ample evidence of the multiplicity of uses where these properties have been utilized. Every major rubber processor is now processing neoprene.

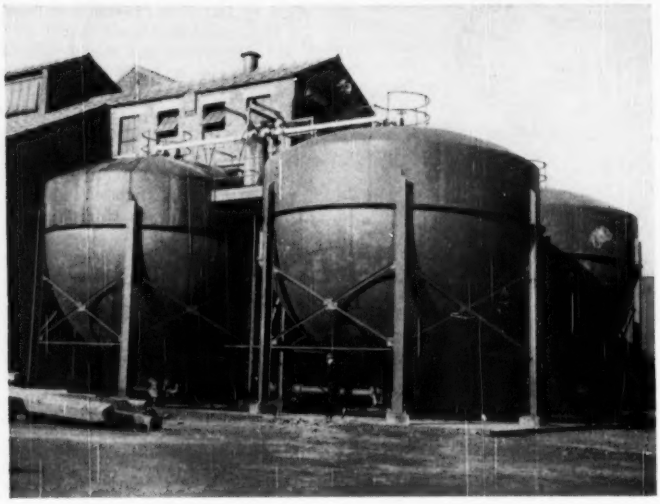
Neoprene's excellent resistance to ozone oxidation and to oils and greases makes it a natural for insulating the high-tension ignition systems of internal-combustion engines. Pontiac is the first auto-maker to use it, and more will follow when sufficient material becomes available. The increasing complexity of metal-working machinery construction and the use of various chemicals in cutting oils and for solvent degreasing provide a set-up for neoprene's increasing application. Other uses range from pump impellers to shoe soles, from rubber electrical cable covering to the rubber shock absorber in automobile car doors.

No Major Problem

Raw materials required for production of neoprene promise to be in ample supply by the time current expansion is completed. Acetylene will be provided by calcium carbide from the new $10-million plant which National Carbide is planning for Louisville (*CI Newsletter, Sept. 1950*). Hydrogen chloride will be provided by more Mannheim furnaces, which prepare it from salt and sulfuric acid.

Not the End

Even more expansion is in the offing: Du Pont has high hopes for a large neoprene market in the paper field, where as an additive it provides high wet strength and chemical resistance. It is added to the beater during paper production and appears to give better resistance to aging and flex-cracking than other polymer additives. Large-scale tests have been made by a major producer of multiwall paper bags, and Du Pont is confident that after digestion of the present expansion, another increase will be in order.



ETHANOL FERMENTERS: They answer only the immediate problem.

ETHANOL BINGE

Long-term trend to synthetic alcohol continues despite rapid expansion of fermentation facilities for butadiene.

A BIG "hic" from the ethanol market this month in the form of reopening of ethanol-butadiene units affirmed that it was still on its long-time binge, dating back to the beginning of World War II. Gone for the moment were the signs of a return to "normalcy" that had been seen after the bottom dropped out of the market last year. However, the end of 1951 promises a small Bromo-Seltzer in the form of a new synthetic ethanol unit, to be completed by the Carbide and Carbon Chemicals Division of the Union Carbide and Carbon Corp. at that time.

Another sign of intemperance was that Tennessee Eastman Corp. has hired the Lummus Co. to construct an oil-absorption ethylene plant at Longview, Texas. As yet TEC isn't talking, but in view of the large quantities of synthetic ethanol that it purchases from the Esso-Standard Oil Co., synthetic ethanol is a logical bet.

Weakness for Butadiene

When the ethanol-based butadiene plants were placed in stand-by condition at the end of World War II, the hope was that they would never again be needed. But the course of events since the Korean War began has forced reactivation of the Kobuta, Pa., and Louisville, Ky., plants despite their high cost of operation—at least 200% higher than for petroleum-butadiene plants at current ethanol prices. The reason is not hard to find: Imports of natural rubber have not kept pace with the demand. For example, 37% of the Malayan rubber exported for the first six months of this year was destined for U. S. consumption, while in July this figure had dropped to 27%.

At the moment synthetic rubber is taking about 5 million gallons of ethanol each month and it is expected that this consumption will be increased to about 15 million gallons per month by the early part of 1951. Added to synthetic rubber requirements are large ethanol needs for smokeless powder production where a mixture of ether and ethanol softens the nitrocellulose before extrusion from the "macaroni" presses. Other rubber-bound chemicals coming from ethanol are Kopper Co.'s styrene produced from ethanol-based ethylene at Kobuta, Pa., and some of Dow's styrene is similarly produced. To meet these needs, either ethanol production will have to double or the difference must be supplied by imports.

Ethanol to feed the reactors at Kobuta and Louisville, either imported or made from grain, will cost at least 75¢ a gallon. This was the price posted by one producer some time before reopening of the ethanol-based butadiene units was announced. This high price was caused by a forced switch from blackstrap molasses to corn as the raw material. Where molasses-based ethanol is available, long-time customers are still paying 45¢ per gallon. Persistent reports indicate, however, that molasses suppliers have already taken up the slack for next year. Contracts are tied to the price of ethanol, and a floor of 13¢ per gallon under the price of molasses is provided. But even 13¢ will produce a 50¢-a-gallon price tag.

There are two reasons for the present shortage of molasses: a rapid increase in the use of blackstrap as a cattle food and large-scale purchases by the British. Until recently the British aliphatic chemical industry was primarily based on fermentation alcohol. But the recent installation of such large-scale synthetic ethanol units in England as Shell's $16-million petro-chemical plant at Stanlow might well reverse this flow, making more molasses available to fill the butadiene maw.

Back on Corn

Of greatest long-term significance is the probability that, except for war-induced variations, the ethanol price curve can be ironed out. Much molasses ordinarily earmarked for ethanol has gone into cattle food; and, if animal hubandrymen can be believed, this trend will continue unless ethanol producers are willing to meet their price. According to them, with corn selling for $1.50 per bushel, blackstrap can be assigned a value equivalent to ethanol at about 60 cents per gallon. Thus in a normal market, non-existent at the moment, corn is in the driver's seat.

The price of corn will control the price of molasses-based ethanol, and in view of the oft-repeated intention of the government to maintain the prices of farm products, blackstrap producers will lose little time and make more money by holding molasses prices at a level which is competitive with corn for feedstuffs—a level that appears to be appreciably above the selling price of synthetic ethanol, even when allowance is made for the present inflated construction costs.

Synthetic Ethanol—the Bromo-Seltzer

Current abnormal civilian and wartime needs aside, the question, "Why

not still more synthetic ethanol?" is thus still legitimate. The answer is compounded of economics, politics and memories of past performances. The economics has been discussed and the politics revolves around the ever-present possibility of a government subsidy for production of alcohol from grain.

The alcohol market's past history has been one of great ups and downs, with the introduction of the synthetic material in the early '30s the first major steadying influence. This, however, has had very little influence on the spot market price: Most of this material is used in vertical integration (as is the ethanol synthesized by Carbide and Carbon) or sold on long-term contract (as is that produced by the Esso-Standard Oil Co. and sold to Tennessee Eastman Corp.).

As late as 1948 alcohol prices nose-dived from a level of around a $1 per gallon to as low as 17¢. This dive was quite disconcerting to producers of synthetic ethanol, one of whom had just completed a new plant wherein ethylene is hydrated directly, rather than via ethyl sulfate as in all other synthetic ethanol plants. Price performance since 1948, however, has been much more reassuring, the spot price first oozing and then spurting upward to the current 75¢-a-gallon level.

Both the long- and short-term market positions seem to spell out the words: new facilities. However, with the exception of Carbide and Carbon, present and potential producers were reluctant to comment when asked if they planned to expand their ethanol capacity. The usual statement was, "We are studying the situation." Carbide and Carbon, largest synthetic ethanol producer, is the only one with definite plans at the moment; at least it is the only one to make public any definite forward move. Tennessee Eastman will make ethylene, but the answer to the question, "What for?" is tucked away in the files at Kingsport. In any event, synthetic ethanol soon can be expected to contribute more than the current 60% of the total normal ethanol output.

Immediate requirements will be met by fermentation of the most readily available carbohydrate material. One exception will be the long-promised production of ethanol as a by-product of the synthesis of gasoline by Carthage Hydrocol, Inc., at Brownsville, Texas. But this production, estimated to be about ten million gallons per year, will only palliate, not cure, the present need. Long-term requirements will be met by synthesis from ethylene.

ICEPHOBIA

Armed services seek industry's aid to solve slippery problem of ice formation.

THEORETICALLY there are as many ways to attack ice formation as there are ways to skin a cat; and the armed services—plagued by cold, rough seas, slippery footing, and foot-thick ice coatings on guns—are deeply concerned with all of them. Urgently needed are coatings of one kind or another that prevent or lessen adhesion of ice to various kinds of surfaces. An engineer in the Navy Department's Bureau of Ships coined a word to succinctly describe such coatings: "icephobic."

Need for such materials isn't confined to military ships, guns and planes: In war or peace ice is a problem on railroad switch frogs, electrical conductor rails or trolley wires, signal mechanisms, refrigerator freezing units, valves and other equipment exposed to wintry weather, and—of course—commercial aircraft and marine vessels.

Progress Made

A great deal of progress has already been made. The Air Force has developed a successful de-icing system for parked aircraft that depends on a freezing point depressant (USAF Specification No. 3609). One of the earliest problems tackled by the Bureau of Ordnance resulted in the development of an icephobic cloth—glass cloth coated with vinyl resin—to replace the canvas covers used to protect open guns.

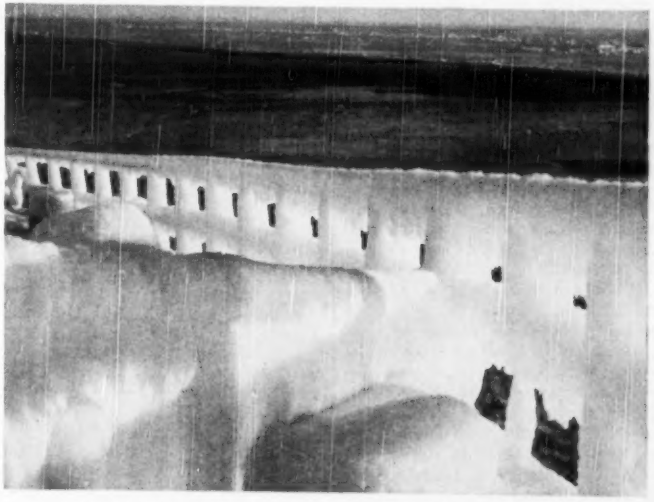
Currently a British firm, Kilfrost Manufacturing Co., Ltd., is distributing its fifteen different de-icing products in this country through Chipman Chemical Co., Inc., Bound Brook, N. J. The compounds are widely used in Great Britain (including the armed forces) and Scandinavia, and they are now being tested by the U. S. Department of Defense.

Industry Helps Out

Not content to leave any stone unturned, the Bureau of Ships has requested assistance from industry in the development of icephobic coatings. A task committee* has been set up, therefore, within the National Security Industrial Association (*CI, Nov. 1949, p. 707*), to seek materials for evaluation under this program.

The committee has pointed out several considerations that must apply: The coatings should withstand several re-icings and the effect of ocean spray for about 6 months if they are to be used on ships, but effectiveness for a few hours or a day or two is usually sufficient for aircraft. Coatings of various colors are needed for camouflage, but a clear coating which would not interfere with the color of the base coat or could be applied over glass or clear plastic windshields would also be desirable. Combinations of mechanical or heating systems with icephobic coatings must be considered, as well as how much ice must be removed or

* Mr. Patterson Humphrey, Secretary, Icephobic Paint Task Committee, National Security Industrial Association, 110 William St., New York 7, N. Y.



ICE-COATED SHIP DECK: A universal need, a multifaceted approach.

how much may be tolerated at any one time.

Ice Removal Systems

A durable coating to which ice will not adhere is, of course, the desired goal. At present such a coating does not exist. Known coatings giving the lowest consistent ice adhesion require fusion to the surface at high temperature. No equally effective material has been found which can be applied as paint.

The plastic material which has shown best icephobic properties is Kel-F, monochlorotrifluoroethylene. Silicone coatings also show some promise, but must be baked on. Teflon and polyethylene show varying ice adhesion characteristics, under some conditions so low that they must not be overlooked as possible useful materials. Ice adhesion to polystyrene and polystyrene-based lacquers is only about 5% to 10% of that on steel or painted surfaces. In general, hydrophobic materials are also icephobic, but there are exceptions to this rule.

Besides mechanical and thermal systems, other systems which may facilitate ice removal are freezing point depressants, parting compounds, adhesion depressants, and nucleated surfaces.

Systems which use freezing point depressants are water-soluble, and their success depends upon a continuous supply unless action is only needed for a relatively short time. As alcohol and the lower glycols make the best compounds, there frequently is the consideration of fire hazard.

Parting compounds include water-soluble greases, such as silicone grease, vaseline, and oil. As they are removed with the ice, they are effective only for a short time.

Adhesion depressants are systems which include water-soluble elements in concentrations far below that required for depression of freezing point. Such coatings are effective in reducing ice adhesion and are less vulnerable to rain or water erosion. Antice, reported to be a product of this type, is manufactured by the Schenectady Product Development Co.

Under proper conditions air may be seeded with countless ice crystals by utilizing the sudden cooling of compressed gas as it escapes through a nozzle, essentially drying the air. Ice forming on a surface under these conditions develops a very porous structure and unusually low adhesion. An air nucleation method, in combination with some mechanical system, might be used for protection of radar equipment in certain locations. There are chemical nucleating agents that lead to the same type of ice formation on surfaces and that will work at temperatures well below the freezing point of water. However, none has yet been found which is effective right up to the freezing point.

Many Avenues

There are thus many avenues to the ultimate goal. Some one of them—or a completely different one—may eventually prove to be the easiest and best; but it may take a lot of military-sponsored research and industry cooperation to discover it.

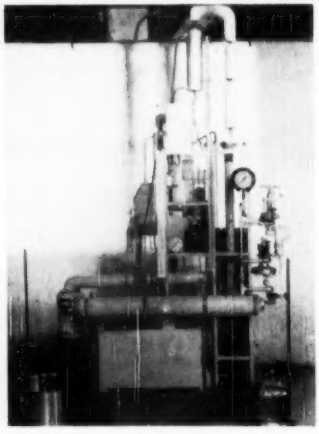
DOUBLE DISTILLATION

Improved methods of processing expand frozen juice concentrate field.

A DEPARTMENT of Agriculture research team at the Eastern Regional Research Laboratory, Philadelphia, has developed a process to make frozen apple juice and Concord grape juice concentrates which, when reconstituted by the addition of water, taste like the natural product.

In making orange juice concentrate the juice is evaporated to a sixth of its volume and then thinned with fresh orange juice to a fourth of its volume. This method does not work well with most other juices, for they lack full flavor and aroma. The Eastern Regional Research Laboratory's scientists discovered that the missing flavor could be recovered by capturing the volatile flavor constituents lost during the evaporation process.

Already installed by over fifty fruit processors is equipment based on the Laboratory's patents for recovering the flavor essence of Apple juice. Among the larger of these are the Empire Fruit Products Co., New York, and the Apple Growers' Association of Hood River, Ore. One of the installations is designed to process 5 million gallons of juice a season.



ERRL'S PILOT PLANT: Odor was the hint.

In this method, 100 gallons of apple juice are rapidly evaporated at atmospheric pressure until about 10 gallons, containing practically all the volatile flavor, have been vaporized. The remaining "stripped" juice is further evaporated under vacuum to produce about 15 gallons of concentrate, while the vapors from the atmospheric evaporation are fractionated to yield one gallon of essence and nine gallons of practically pure water. The essence and concentrate are then mixed to form a "full-flavor concentrate."

Pressing Problem

Because of the size of the industry and the value of its products, juice pressed from Concord grapes was the next selected for study. It was soon found that grape essence recovered from the vapors of even as much as 48% of the grape juice did not have sufficient aroma and potency to give a full-flavor concentrate.

First hint to the solution of this problem was the characteristic grape odor of the distillate from the vacuum evaporation of the stripped juice, and efforts were directed toward recovering a second essence from this distillate.

It was found that rapid (to avoid decomposition) atmospheric evaporation of 20-25% of the original pasteurized juice removes essentially all volatile flavors. For this operation, evaporation is accomplished in a single pass evaporator using 15 psi steam pressure. The evaporator and all other equipment used in this process are made of stainless steel. Total time for heating, vaporizing, and cooling back to room temperature is 20-30 seconds. The vapors pass to the bottom of a fractionating column and are concentrated to produce one gallon of essence for every 100 gallons of juice.

Depectinization

A pectinase enzyme is added to the stripped juice so that the concentrate will not become too thick. After standing overnight, the stripped juice is heated to 140° F. to destroy any excess pectinase and immediately filtered. Evaporation occurs in a calandria-type evaporator operating at a vacuum of 27.5-28.0 inches of mercury and a temperature of 99-109° F. The juice is evaporated to a density of 50° Brix

for use in the frozen concentrate. Further concentration to 65-70° Brix provides a sirup which is self-preserving against fermentation and with added essence finds use in enhancing the flavor of grape jellies and preserves.

Second Essence

The distillate from the surface condenser is fed to the essence equipment and processed much like the fresh juice. Twenty to twenty-five percent is evaporated and the vapors are fed into the fractionating column to give a 100-fold second essence. This is equivalent to 0.6 gallons of the original juice. The final full-flavored concentrate made from 100 gallons of juice is 16.25 gallons of straight concentrate, one gallon of first essence, and 0.6 gallons of second essence. This 17.85 gallons of full-flavored cancentrate, plus 82.5 gallons of water, yields 100 gallons of full-flavored juice so similar in taste to natural grape juice that trained tasters can hardly discern the difference.

Private enterprise has not been sitting on its hands, of course, while the Government reasearchers have been busy working out their process. Among others, Mojonnier Bros., Chicago, has developed and sold an independent process. Among them all, it looks as if a lot of apples and grapes will give up their moisture.

HLB PROGRESS

Atlas Powder Co. simplifies system of emulsifier selection.

ATLAS chemists have been seeing what more they can do since the company introduced the "HLB" method of emulsifier selection a couple of years ago (*CI, Nov. 1948, p. 764*).

HLB means hydrophile-lipophile balance, and it is a quantitative measure of how much a surface-active agent loves water and hates oil, or vice versa. A low HLB value indicates that the agent is attracted to (and is usually soluble in) oil, while a high value indicates similar behavior towards water.

The wide choice of emulsifiers and mixtures thereof is narrowed down, then, to those whose HLB values match the HLB requirement of the job at hand.

Narrowing Further

What Atlas has done in the past two years is to refine the calculations of HLB requirements. Formerly values were available for general uses and several specific formulas; but now Atlas has calculated specific HLB requirements for a large number of common emulsion ingredients—lanolin, stearic acid, various oils, petrolatum, various waxes, cetyl alcohol, etc. A proposed cosmetic cream, for example, may have the following composition:



EMULSION FORMULATION: A lightened burden.

Beeswax	5%
Mineral oil	26%
Hydrog. vegetable oil	18%
Polyol	4%
Emulsifier	5-10%
Water—q. s. to make	100%

The components of the oil phase—beeswax, mineral oil, and hydrogenated vegetable oil—have required HLB's of 5, 10 and 9, respectively. The total oil phase makes up 49% of the total. The calculation is simple:

Component	*Proportion*		*Req. HLB*
Beeswax	5/49	x	15 = 1.5
Mineral oil	26/49	x	10 = 5.3
Hydrog. veg. oil	18/49	x	9 = 3.3
Estimated required HLB			10.1

It will be found, then, that emulsifier combinations having an HLB of about 10 will work best in such a cream.

Still Cut and Try

That's not saying that any emulsifier of HLB 10 will do the job. HLB is only one factor; chemical constitution of the emulsifier makes a lot of difference in the final result. The calculated HLB will give the best results from any one chemical type, but optimum results require both the proper HLB and the correct chemical type.

Nevertheless, the formulator's burden will be considerably lightened if he only has to try out six emulsifiers instead of sixty.

DUST DELETER

New asbestos-containing paper is basis for highly efficient air filter.

A NEW air filter which utilizes a special paper containing finely divided asbestos fibers has emerged from the postwar search for an inexpensive material capable of removing minute particles of radioactive material from air. The new filter paper, developed by Arthur D. Little, Inc., for the Atomic Energy Commission and made by Hollingsworth Vose Co., will remove all but 0.02% of the dust normally present in country air.

High Capacity

The soft felt-like paper, 0.04-0.05 inches thick, can be pleated to achieve a very high capacity per unit of filter volume. A single filtering unit consists of deeply pleated sheets of the paper held in a wooden frame by a plastic adhesive. The pleats are spaced by ordinary box-board corrugated paper, thus permitting easy passage of the air to be filtered, which enters the end of the honeycomb-like assembly. Sponge rubber gaskets cemented around the edges of the frames prevent airleaks when the frame is clamped into place.

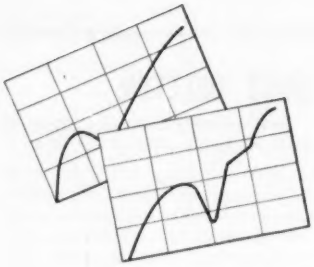
The present filter unit, 2′ x 2′ on the face and 1′ deep, is capable of cleaning 800 cfm of air with a pressure drop of only 1 inch of water. The linear velocity through the filter box is approximately 250 ft. per min. but the extended surface introduced by the pleats in the paper reduces this to approximately 5 ft. per min. through the paper itself.

Clean Air for Industry

The 800 cfm units, now used by AEC, are expected to be available to industry in the very near future. It is hoped that this capacity will be extended up to 2,000 cfm shortly thereafter.

A life of six months can be expected when operating on ordinary country air before the pressure drop increase necessitates disposal of the paper. The higher dust content of the atmosphere in industrial areas necessitates use of precleaners, such as fiber or electrostatic filters, ahead of the new filter unit if clogging is to be held to a reasonable level. With precleaners a life of two years can be expected.

Major application will probably be the cleanup of air coming into plants making photographic film, fine instruments, pharmaceuticals, etc., where absolute air cleanliness is essential.



Figures on the Future

EDITORIAL STAFF REPORT

THE FUTURE IS SCANNED in two interesting reports. Growth in the process industries will help boost living standard by one-third.

PREDICTING the future is a game to some but a job to many. In the last few months two organizations who view it as a job compiled reports on what the chest and bicep measurements of a still growing industrial America will be in 1955 and 1960.

The report that squinted ahead five years was assembled by the research department of J. Walter Thompson, the well known advertising agency. It directed its focus mainly on the consumer-marketing situation that may prevail five years hence. The other report was the product of McGraw-Hill's Economics Department. It devoted the major part of its prospecting to the industrial-production scene that may be expected at the end of this decade.

Both make interesting reading. And the passages of the McGraw-Hill tome on the chemical process industries are especially significant to the men who shape the destiny of that enterprise. Unfortunately, these industrial predictions were put together before the 38th parallel sprang its violent leak. As a result, they do not take into account the effect that stepped-up military procurement will have on national industry. Even so, the report is still useful as a depiction of the normal growth trends that strain on behind the distortion of crisis-ridden figures.

PROCESS INDUSTRIES KEEP GROWING

The chemical process industries will continue their much heralded growth throughout the next ten years. There is no sign of leveling off in the future. New products and new uses for established products keep prodding the growth curve ever upward. The main push in this direction is being contributed, not by the old line heavy chemicals but by the synthetics that have a way of replacing costly fibers, metals and other natural materials.

In this era of high labor costs, investment in the chemical process industries is especially tempting. A twist of a valve handle by the hands of one chemical plant worker releases a flow of productive effort equivalent to many pairs of hands in other fields.

The synthetic fibers, rayon and nylon, are growing at a rate that may double their markets by 1960. And newcoming synthetic fibers such as orlon and dynel may press wool hard. At present chemical processes are furnishing about 20% of fiber requirements. But by 1960 this figure is likely to be doubled.

New applications continue to stimulate the demand for plastics. Production of these materials this year will round out to about 1.9 billion pounds. But the report claims that a decade hence the figure will be 3 billion pounds.

The production of fuels will undoubtedly remain the main stock in trade of the petroleum industry for some time to come. But the making of chemicals from petroleum, an enterprise still in its adolescent stage, may become man-sized by 1960. At present 25% of all synthetic chemicals are made from petroleum. By 1960 this figure bids well to become 40%.

But the growth of petrochemical output will not be at the sacrifice of regular line refinery products. Gasoline, greases and lube oils must be produced in increasing amounts to meet the demand of our transportation-based economy. High compression engines mean higher octane gasoline and each year brings more Diesel engines and a demand for more Diesel fuel. As a result the swing will be to light fuels for transportation and somewhat away from the heavier fuels used for heating.

But perhaps the most striking growth in fuels will be that of natural gas for home heating and industrial uses. The sale of natural gas for these purposes in 1952 will represent a 20% increase over 1949.

In the last decade the quantity production of pharmaceuticals has definitely become a chemical process industry. Advances in biochemistry and the increased breadth of government and industrial medical programs have been mainly responsible for this new shape of an old industry. Similarly the impact of technology on agriculture will continue to make the farm a major consumer of heavy and light chemicals such as fertilizers and insecticides.

HIGHER STANDARD OF LIVING

The Thompson report with the observation that the high employment, purchasing power and consumption levels reached in 1950 were not just the result of the replenishment of inventories after the "unnecessary" inventory scare of 1949. They were really the first evidence that this country had begun to feel the upward surge in standard of living that had been latent since World War II. It proved that our productive ability is far in excess of the prewar concepts of living standards and civilian consumption.

To capitalize upon this situation it is necessary that Americans learn to live a third better than at present within the next five years. There is reason to believe that at the end of this period America could support a peacetime production of over $330 billion.

In order to match this productive ability the total consumer market for goods and services would have to expand by 1955 to over $235 billion or one-third greater than that of 1949. In the same time the demand for nondurable goods would have to expand from $98.9 billion in 1949 to $120 billion. Services and housing would also have to increase from $51.1 billion to $85 billion in 1955.

The remainder of the Thompson report shows that these demand growths are not beyond reason to expect. They are completely in line with predicted population increases and the present high levels of individual savings, low levels of consumer debt and the increasing urbanization of the population.

A CI REPORT ON

WAXES

Types, Production, Properties, Uses

by CHARLES J. MARSEL*

A manufacturer can intelligently select a wax-like material for his product or process if he knows the different sources, means of production, properties, applications and price range of commercially available waxes. The author reviews current wax technology, appends a handy reference list of waxes on the market.

WAX-LIKE MATERIALS are among the oldest and the newest of the raw materials and products of the chemical processing industries. Use of wax derived from animal and vegetable sources as protective coatings goes back thousands of years; new materials for this and other purposes are coming out of chemical laboratories daily.

Application of modern engineering techniques has made the unique properties of the time-honored materials even more valuable than they have been in the past. The petroleum industry, which can supply almost limitless amounts of wax, has improved its refining procedures so that specialty waxes for a variety of uses are now common materials of industry. And chemical manufacturers themselves have developed synthetic materials that have desirable wax-like characteristics.

Such industrial activity has resulted in a tremendous growth in the variety of available waxes as well as in the number of their uses. Wax has now attained an impressive industrial position not only as a protective coating and polish, but as an important constituent of carbon paper, cosmetics, pharmaceutical preparations, stencils and inks, adhesives, lubricants, photographic preparations, flameproofing compounds, electrical insulation, paints, chewing gum, paper and textile aids, and many others. An examination of the sources, properties and uses of wax-like materials should be of value to all who use waxes in their processes, or whose products have properties that make them likely wax substitutes.

In this review of modern wax technology, all wax-like substances will be included regardless of their source, since waxes are used industrially because of their peculiar physical characteristics and seldom because of their chemical nature. The major classes of waxes include:

- Natural waxes—plant, animal and insect.
- Petroleum waxes—paraffin and microcrystalline, including petrolatum and oxidized microcrystalline.
- Mineral waxes—ozokerite, montan and ceresine.
- Synthetic waxes—a wide variety of chemical compounds.
- Wax blends—blends of any of the above.

PLANT WAXES

Plant waxes occur mainly as coatings on plant leaves and stems and on certain berries and grasses, with some of the rarer waxes appearing on flowers, roots and fruit. Most of the trees and plants from which these waxes are obtained grow wild in different sections of the world. The plants which produce the greatest amount of wax for their weight are found in hot or tropical climates, particularly in arid regions; here the wax acts as a coating to impede moisture evaporation. In the arid plants, glycerides apparently are transformed into high molecular weight acids, alcohols, and hydrocarbons; these can further react to give esters, lactones, resins, etc.

CARNAUBA WAX

Carnauba wax is obtained from the leaves of the carnauba palm, which grows wild in various parts of the world, but only produces wax in the three or four states in the semi-arid northeastern part of Brazil. Its high melting point, hardness, ability to take a high and lasting polish, and compatibility in mixtures make carnauba the most important wax in the plant group.

The carnauba palm grows mostly along the banks of rivers and lakes, and has leaves which grow from long stems in a fan shape. The wax forms a continuous film over the surface of the leaves to conserve moisture during the dry season. This is the season when the wax is harvested by native workers, who cut the leaves with long sickle-like knives. After the large leaves are cut, they are carefully transported to a central terrace for field drying, although at least one large United States company producing carnauba wax in Brazil dries its leaves indoors.

The leaves are first shredded by

* Dr. Marsel, associate professor of chemical engineering, New York University, University Heights, N. Y., is a consultant specializing in waxes.



WAX REMOVED from hydraulic presses after separation from distillant at Bayonne, N. J. Wax Plant of Standard Oil Co. (N. J.)



HOT LIQUID WAX being run into mold. An extra portion is released into mold to allow for shrinkage.

drawing them across a series of tooth-like blades which split the wax-containing ribs apart and open the leaf webs. They are then beaten against sawhorses to remove the wax dust. Brazilian law requires that this operation be done in a building with tight walls, ceilings and floor to avoid loss of the powdery wax. The wax dust is then melted down and strained. After the wax solidifies, it is broken into lumps and shipped to the coast for export and refining.

There are a number of grades of carnauba wax available commercially. If the wax is obtained from the *olho* leaf, the young new leaf that grows upward from the center of the palm, it is very light in color, and quite pure. The majority of wax, however, is produced from the *palha* or older horizontal leaves; this wax ranges in color from greenish-yellow to a dark brown.

Common grades of carnauba wax are: #1 Yellow; #2 Yellow; Fatty Grey; North Country #2; Cauhype; North Country #3; Chalky. Chalky wax has had 5-10% moisture added during the crude refining operation.

The color of the wax depends on the age of the leaf; older leaves yield a darker wax. Certain physical and chemical properties can also be correlated with leaf age.[1] Older waxes have higher acid numbers, lower iodine numbers and lower flash points than younger waxes. This would appear to be evidence of increased oxidation and degredation of the molecule upon longer exposure to air and sunlight. Recently an intensive study of the variations in physical and chemical properties found in these various grades was sponsored at New York University by the American Wax Importers and Refiners Association, Inc.[2]

A carnauba palm, of which there are 50 to 75 million producing, should be about 10 years old to yield an appreciable quantity of wax. Since average yield per leaf is about five grams and there are usually less than twenty leaves cut from a tree yearly, it takes about five trees to produce a pound of wax per year. The processing involved accounts for the relatively high cost of carnauba wax. In 1944 the OPA ceiling price was established at 80¢/lb.; current price of North Country #3 refined is 84-86¢/lb. The United States customarily imports 75% or more of the Brazilian production. U. S. imports run about 18 million pounds a year.[3]

The two main uses for carnauba wax are in water emulsion floor polishes and carbon paper. Shoe, automobile and other polishes also use considerable quantities. A miscellany of other manufacturing uses include phonograph records, insulating materials, electric batteries, candles, matches, soaps, salves and chalk. Carnauba is often used in a mixture of waxes as a melting point booster.

About 75% of carnauba wax is the ester myricyl cerotate. Despite much work, there is no completely successful substitute for carnauba, as the ester itself cannot be synthesized economically, and other suggested compounds lack the unique combination of necessary properties.

OURICURI WAX

A wax somewhat similar to carnauba but cheaper in price is ouricuri. This wax is obtained from the undersurface of the leaves of a low feathery palm, growth of which covers 60 million acres in the State of Bahia; it is estimated that there are about 250 trees to the acre. The tree grows wild and for many years the only commercial interest was in the edible oil derived from the kernel of the nut which the tree produces. During the middle 1930's, however, it was discovered that the wax had characteristics similar to carnauba, and production has steadily increased.

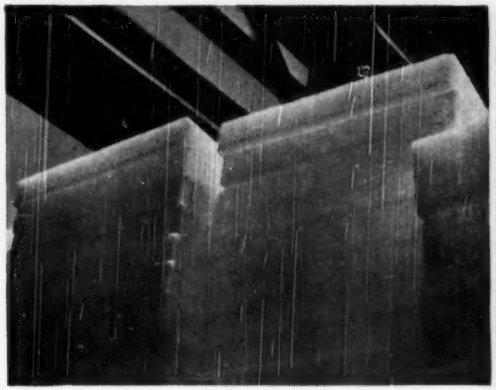
The wax is scraped from the leaf by knife, melted and strained. Its high gravity does not permit ready separation by settling of plant impurities, and the gathering and extracting industry is not as well organized as for carnauba. Hence commercial ouricuri contains many more impurities than carnauba.

Ouricuri is used often as a substitute for carnauba but due to its higher resin content it is not always a desirable replacement. Its uses are similar to those for carnauba. OPA price for ouricuri was 48-62¢/lb.; current price of the refined material is 84-85¢/lb. U. S. imports have run about 3.5 million pounds a year.[4]

PALM WAX

Several other waxes similar to ouricuri but of lesser commercial importance are available. One of the most interesting, but as yet practically unknown waxes, is the palm wax of the Colombian Andes known as Ceroxylon wax because it is obtained from the tree called *Ceroxylon andicolum*. There is, apparently, more than one variety of this tree. Some are said to grow 200 feet high, while others average 40-50 feet. The wax coats the outside of the palm trunk as a glistening white covering. It is scraped from the leafy palm as a hard flaky white material.

Palm wax has received a bad name because it has been offered when largely adulterated with paraffin; in fact, wax blends used as carnauba substitutes are often referred to as palm wax. Of late years, however, two types of palm wax have been imported into the U. S. One is a crude



CAKES of refined wax awaiting packaging and shipping. Paraffins and microcrystallines are the principal petroleum waxes.



LACING BAGS that have been packed with refined wax. A wide range of grades of petroleum waxes, many with special uses, is made.

wax arriving in lumps, with a melting point of 72° C., and the other is the palm powder itself which, when refined, yields a wax with the phenomenally high melting point of 112° C.

These waxes are very resinous, showing a high melting point with a much lower solidifying point, and possessing a high iodine value. Strangely enough, except for melting point, both of the types mentioned appear to be similar in chemical characteristics. The wax dust is extremely hard to refine, as it contains about 10% of fibrous material, must be melted in special vessels before refining, and to obtain a good yield, requires that the fibrous residues be extracted by solvent extraction. This high-melting wax is one of the hardest, if not the hardest, of the natural waxes. It would seem that this true palm wax should be outstanding for some special purpose if more interest were taken in it.

Another wax in the palm group, raffia wax, is obtained from the Madagascar sago palm.

CANDELILLA WAX

When considering waxes obtained from the stems, fruit or leaves of small plants, the most important wax is candelilla. Its source is a rush-like perennial weed found in the dry regions of Northern Mexico and Southern Texas. Most of the production comes from Mexico. The candelilla plant consists of numerous slender cylindrical stalks which range in height from 2 to 5 feet. These stalks are covered with a powdery wax which gives the plant a bluish-green color.

These plants are pulled up by hand or cut off at the ground and transported by wagon or burro to the extraction plant. They are then placed in tanks and boiled with water acidulated with sulfuric acid. The plants are kept below the surface of the solution, and as the molten wax rises, it is transferred to lead-lined tanks. Here it is kept at the boiling point to remove water, and allowed to settle to remove dirt. The yield of clarified wax is about 1.5-3% of the air-dried plant. It is possible to obtain the wax by solvent extraction of the plant, but the economics of this process are questionable.

Candelilla is a hard and brittle wax. It is composed of about 50% hydrocarbons with smaller amounts of esters and free acids. Its principal use is in the manufacture of carbon paper, floor, furniture and automobile polishes, and packaged shoe stains and polishes; but it is also used in chewing gum, leather dressing, candles, cements, varnishes, sealing wax, electrical insulating compositions, phonograph records, paper size, celluloid, water-proofing and insect-proofing containers and paint remover, and as a blending agent in wax mixtures. It was price controlled at 38¢/lb. by the OPA; current price of the refined is 64-66¢/lb. U. S. imports have run as high as 9.6 million pounds a year[4].

SUGAR CANE WAX

A wax of considerable potential importance is sugar cane wax. The potential yearly production of hard wax from the sugar mills of Cuba alone would be about 60 million lbs., more than the world's combined production of carnauba, ouricuri and candelilla. The cane wax of commerce is a by-product of sugar production, and this fact, together with the magnitude and permanence of the sugar cane operations, should provide unique advantages for the future of cane wax production in terms of quantity, permanence of supply and cost considerations.[5]

The wax occurs as a thin white layer on the exterior of the stem of the sugar cane. When the cane is being milled, about 40% of the wax is loosened and it stays in the juice as part of the suspended matter. The remainder of the wax remains on the bagasse; the tremendous bulk of the bagasse and the low wax concentration (0.1%) make its recovery impractical. The wax in the juice is concentrated in the press cake of the final raw juice filtration, along with the cane oil and other fatty and resinous constituents from the inner cells of the cane. Isolation of the wax from this mud or cachaya has been described by E. S. McCloud of S. C. Johnson & Son, Inc.[5]

The total solvent extractable mixture of wax, fatty, and resinous material is present in the amount of 21% of the dry press cake. This crude wax mixture is leached from the filter cake mud in a continuous vertical extractor. It is implied that the crude wax so obtained is extracted with acetone at 90-100° C., and a resin fraction consisting mostly of the calcium and magnesium salts of wax and resin acids, in the amount of about 18% of the crude wax, remains undissolved in hot acetone and is separated. Upon cooling to room temperature the desirable wax fraction crystallizes out, leaving about 33% of the crude dissolved in the solvent in the form of a fatty oil. This wax, now freed of resins and oil, is a hard, sharply melting solid with a melting point range of 76-79° C., and color ranging from strong green to brown and tan.

Purified cane wax contains approximately 66% esters, 27% free acids, 5% free alcohols and 2% hydrocarbons. Chemically speaking, the wax is more complex than the other hard waxes of commerce. It is stated that the characteristics of the final product may be varied depending on the ini-

tial recovery process and the final refining or treatment operation.

In 1916 and for about a period of ten years thereafter a sugar cane wax recovery plant in Natal, Union of South Africa, produced and shipped several thousand tons of sugar cane wax. The plant was closed, and it is believed the decreased demand was due to non-uniformity of lots because of relatively crude recovery methods.

Apparently a series of products will be marketed, based on the types demonstrated to have the greatest value in specific uses. Uses claimed for the wax are similar to those for carnauba.

Present production is from a Gramarcy, La., plant owned jointly by S. C. Johnson & Son, Inc., and the Cuban-American Sugar Co. Warwick Wax Co., Sun Chemical Corp. subsidiary, is the sales agency for the wax, which is selling at about 70¢/lb. in carloads. Potential uses for the wax are in water-emulsion polishes, carbon paper and paste polishes; as pigment dispersers and for casting purposes. Uses are also being sought for the resin and oil fractions obtained as by-products from the solvent extraction.

JAPAN WAX

Japan wax resembles a fat rather than a wax; it is obtained from the berries of a small cultivated sumac-like tree which grows in Japan and China. The wax, occurring between the outer skin and the kernel of the berry, is obtained by a steam rendering process. A tree produces over a span of about 100 years and has an annual yield of about 30-45 lbs. of berries containing about 15% crude wax. The wax melts at about 50° C. and is used in candles, rubber vulcanization, polishes, and textile finishes. Current price is 62-65¢/lb.

ESPARTO WAX

Esparto wax is derived from esparto grass, a tough grass found principally in Northern Africa. Consumption is mainly in Britain. The grass is dewaxed and used in making fine grade paper.

FIR BARK WAX

Another new wax is obtained from the bark of Douglas fir tree. This development is an outgrowth of work on the saccharification of Douglas fir waste wood to produce ethanol. The Oregon Wood Chemical Co., Springfield, Ore., plans production of three tons per day of the wax by steam distilling benzene which has been used to dissolve wax from the ground bark.

There are many other plant waxes found naturally in varying amounts, but they are of small commercial importance.

ANIMAL AND INSECT WAXES

BEESWAX

In this group beeswax, use of which has been traced back to the early Egyptians, is the most important commercially. *Apis mellifica*, the domesticated honey bee, furnishes most of the beeswax of commerce. Wax scales are secreted by eight wax glands on the under side of the abdomen of the worker bee as a digestive secretion formed in the stomach from the honey and flower pollen. The scale is removed from the abdomen and received by the mandible of a co-worker where it is chewed before being placed in the cell of a comb. Bees are believed to secrete 1 lb. of wax for every 8 lbs. of honey they produce. Crude beeswax varies in color and quality with the type of bee, its food, and the processing of the wax. Crude beeswax is usually rendered from the frames and scrapings by melting in boiling water often containing a small amount of H_2SO_4. It is then strained and solidified. The wax is then usually bleached, often by sunlight, yielding a white or light yellow product. Domestic beeswax does not bleach as readily as does much of the imported wax; consequently the domestic price is lower. Current price of the crude imported material is 56-62¢/lb., depending on the source.

Principal constituent of beeswax is myricyl palmitate, although it contains substantial quantities of free wax acids and hydrocarbons.[6] Beeswax is used in many industries and its production and distribution is world wide; world production has been estimated at over 40 million pounds annually.[7] U. S. imports have been 6-7 million pounds a year; consumption has run close to 12 million pounds.[7]

Because of its relative cheapness and plasticity, main use of beeswax is in cosmetic preparations. Next largest use is in church candles, for beeswax candles give off a perfumed odor on burning. Candles used for Mass and Benediction in Roman Catholic churches must contain at least 51% beeswax; many contain a higher percent. Other uses include polishes, modeling, and pattern making.

SPERMACETI WAX

Spermaceti wax is obtained from the head of sperm whales, where it is dissolved in the sperm oil. The oil, drained from the huge head cavities, is allowed to stand, and the wax crystallizes out. The wax has a melting point of 43° C. and becomes rancid on aging. The standard candle for measuring light intensity uses spermaceti because of the bright flame produced on burning. The wax is essentially cetyl palmitate. It is used for candles, in medicine, and as a source of cetyl alcohol. Current price of the wax in blocks is 28-31¢/lb.

CHINESE INSECT WAX

This wax is deposited on the leaves and stems of certain types of ash and privet trees in China by an insect called *Coccus ceriferus*. The insect does not breed in the same district as the trees, and the eggs are transported yearly about 200 miles and suspended on the shoots of the trees. The branches of the tree, which are covered with a thick deposit from the insect, are placed in boiling water to release the wax. It takes about 1500 insects to produce 1-2 grams of wax. The wax is used in candles, furniture polishes, and coatings for paper and cloth.

SHELLAC WAX

Shellac wax is obtained as a by-product in the preparation of spirit shellac. The shellac is deposited in a fashion similar to the Chinese wax by the lac insect. The shellac is dewaxed by a solvent treatment, and the wax used as a component of insulating material.

WOOL FAT

Since the purified fat of the wool of the sheep consists mainly of the fatty acid esters of cholesterol and other fatty alcohols,[6] it may be considered chemically as a wax, although its properties cause it to be considered commercially as a fat. It is obtained as a by-product of wool purification, and has many uses.

PETROLEUM WAXES

Petroleum waxes are the solid waxes obtained from various petroleum fractions. Although their outstanding property is resistance to water vapor, these waxes vary considerably in properties depending on the processing involved in their manufacture, and the fraction of the particular crude from which they originated. Improved refining techniques have resulted in a wide range of grades, with many specialized uses. These variations in properties that are available for different applications plus their adequate supply at low and stable prices make petroleum waxes particularly attractive raw materials.[8]

Crystalline type waxes consist principally of saturated straight-chain hydrocarbons ranging from C_{17} to about C_{60}, and minute amounts of unsaturates. The latter, which apparently become dark upon oxidation and/or polymerization, seem to explain the gradual discoloration of water-white wax when exposed to air.

The two principal types of petroleum waxes are paraffin waxes and microcrystalline waxes. There are many variations of each type, as explained above. Melting point of paraffin waxes is generally lower than micro waxes. Microcrystalline waxes are distinguished also by their small indistinct crystals compared to the larger paraffin crystals, and by their inherent toughness and outstanding tensile strength and flexibility characteristics. Microcrystalline waxes generally have more oil than paraffin waxes, which oil is held with exceptional retentivity, and therefore in some cases they have considerable tackiness. The crystals in paraffin wax are of the plate and needle type, while in micro waxes they tend toward malcrystallization or ill-formed crystals. Paraffin waxes have a greasy feel, compared to the tacky or resinous feel of micros.

PARAFFIN WAXES

Although decreasing in importance, the old pressing and sweating process for the production of paraffin waxes from wax distillate is still in use. This involves crystallization of the wax by chilling the oil, and removing the slack wax by filtering the slurry in plate and frame filters. Chilling the wax distillate is usually accomplished by heat exchange with the cold dewaxed oil, followed by further cooling by direct expansion of ammonia. When the wax slurry passes through the plate and frame filters, solidified wax is retained on the canvas cloth filters and the wax cake removed by hand scrapers. The de-waxed oil flowing beneath the press is processed into lubricating oils. An alternate method of removing the wax is by centrifuging it from the chilled wax slurry by means of Sharples supercentrifuges.

The operation of sweating consists of cooling the slack wax to a congealed mass and slowly heating it to temperatures of 100-140° F. in long shallow pans. If the wax is of the proper type and condition, it gathers into well-defined needle crystals and the oil drips or sweats from the wax cake.

Pressing and centrifuging, however, are relatively expensive operations. Many plants are now changing to solvent dewaxing units.[9] There are a number of solvents which can be used. One system used commercially is propane de-waxing, which is usually combined with de-asphalting because an improvement in color can be attained at little extra cost.[10] Evaporation of the propane itself, accomplished by reducing the pressure in the system, furnishes refrigeration. Filtering is done by rotary filters, where suction is maintained inside the drum while it dips below the level of the wax-solution slurry in the filter case. Washing the cake with propane is accomplished in the same cycle. The wax still contains from 6-8% oil and may be converted to "scale" wax by sweating, or by repulping the cake with propane and refiltering.

Another solvent process of increasing importance is one using a ketone solution, usually methyl ethyl ketone (MEK). Benzene and toluene, which are very good solvents for oils, are added to MEK, which has very low solvent power for wax. A typical mixture for low-viscosity oils is 55% MEK, 35% benzene and 10% toluene; this mixture has good solvent properties for oil and poor ones for wax. Wax distillate is diluted with the solvent mixture and chilled to precipitate the wax. The slurry is filtered in rotary filters. The cold filtrate, after heat exchange with the incoming feed, is stripped of solvents and further processed. The slack wax after washing is stripped of solvent and may be sweated or, alternately, solvent deoiled. This involves a redissolving in solution, re-precipitation and refiltering. A wax of very low oil content may be so obtained. Final operations on the wax may include acid treatment and clay contacting.

It is obvious that by proper adjustment of solvents, process variables and feedstock, specialized waxes of varying physical properties may be obtained.

Most paraffin waxes melt in the range of 40-60° C. They have many uses, of which the largest are coating paper and paper products, and making candles.

MICROCRYSTALLINE WAXES

Source for microcrystalline waxes is "pipe still bottoms," the heavy fraction remaining after distillation of the crude. Asphaltic materials are removed from the fraction by precipitation from liquid propane (propane deasphalting). Napthenic materials are removed by solvent extraction, often with phenol. Oil held in the malformed crystals of micro slack wax cannot be sweated, and a solvent process must be used. A typical operation would be the use of MEK solution in a sequence of operations similar to that described for paraffin wax.

The micro waxes can be classified into two types: the first is extremely ductile, flexible and tacky and is commonly used as a laminate; the second is a relatively high-melting dry or relatively oil-free wax of most interest in the liquid polish industry. This latter type has found wide usage in many fields, since in some cases the price picture is comparable to paraffin.[11]

Wax obtained from heavy residue stocks and containing enough oil to make them quite plastic are called petrolatums. Their use is largely limited to cosmetic and pharmaceutical applications. However, they are occasionally used as plasticizers in wax formulations.

EARTH WAXES

MONTAN WAX

Montan wax is a bituminous wax, not a paraffin, which occurs in woody coals or lignites, and is leached therefrom by solvent extraction. The crude wax is brown or black in color, but in the refined state it is light yellow or nearly white. The principal source is Germany, where its production is an old industry. In 1939, more than 7 million lbs. were imported here from Germany. The I. G. Farben Co., by suitable chemical modification of the montan waxes, produced a new series called I. G. waxes,[12] which were widely known and used in place of vegetable waxes.

Crude montan wax is produced in Germany from brown coal whose wax content runs 10-18%. The coal is granulated and dried by steam heat to a moisture content of 10-12%. The wax is then extracted from the coal with a solvent mixture of 85% benzene and 15% crude wood alcohol at 90-100° C. After extraction the solvent is distilled off, leaving the crude montan wax as residue. Extraction may either be a batch process or a continuous percolation process. The crude wax contains about 20% natural resins, and for certain purposes may be deresinified. This is done by powdering the wax and extracting the resin with hot alcohol. The deresinified wax may be further purified by bleaching.

The Bureau of Mines has investigated production of montan wax from domestic lignitic coals, and reported that certain lignites from Arkansas and California coals gave yields similar to the German coals, but the wax had a higher resin content. A similar solvent extraction was used.[13] During World War II the American Dyewood Co. operated a plant at Malvern, Ark., and extracted wax from Arkansas lignite; the plant has been closed since 1945.

Early last year, domestic production of montan was revived[14] by the American Lignite Products Co. which is working lignite deposits at Ione, Cal. The process is based on German procedures and the earlier Arkansas project. At that time, several thousand pounds per day were being produced.

Commercial grade montan wax is a high-melting, hard, brittle wax used as an ingredient in certain polishes, electrical insulating compositions,

leather dressings, inks, carbon papers, and greases.

OZOKERITE

Ozokerite is a hydrocarbon wax which is mined mostly in eastern Europe from veins of wax shale that usually occur close to the surface of the earth. Some mining of the wax has been done in Utah and Texas. It greatly resembles paraffin wax in appearance and composition, and it is therefore relatively easy to adulterate it with the cheaper paraffins. It is separated from earthy matter by melting in boiling water and then drawing off the wax layer. The crude wax may be purified by treatment with sulfuric acid and bleaching earth. Ozokerite owes its wide use to its great compatibility with many substances and its affinity or absorptivity for oil. In this respect it is superior to paraffin wax which tends to crystallize from admixture and in so doing allows fluid components present in the mixture to "sweat" out. It is used in solvent-type polishes, electrical insulator compositions, paper and leather impregnators, and cosmetics. Refined ozokerite is often called ceresine, although a mixture of paraffin wax and beeswax is also known as ceresine, as is a mixture of ozokerite and paraffin.

SYNTHETIC WAXES

An interesting and important recent development has been the appearance of a number of synthetic waxes on the market. Most of these synthetics are waxes only in the sense that they possess physical properties similar to the natural waxes. The rather obvious duplication of natural vegetable waxes by esterification of high molecular weight acids and high molecular weight alcohols to form esters has never been commercially feasible because of the high price or commercial unavailability of the starting materials. It is possible, however, that at some future date the petroleum industry may be the source of such chemicals in the proper price range.

There are a number of esters available commercially which resemble waxes in physical properties. Esters of polyhydric alcohols are the principal members of this series. For example, ethylene glycol or diethylene glycol can be esterified with stearic acid to give high molecular weight esters of a wax-like nature. Similarly the mono-, di- and tristearate of glycerine, or mixtures thereof, are widely used. Sorbitol can also be esterified with stearic acid.

High molecular weight acids and alcohols as such have wax-like properties. Cetyl and stearyl alcohols are examples; the acids include stearic, palmitic and myristic. Most of these are sold as the technical grade products which contain varying amounts of other components.

Hydrogenated cottonseed, soybean and corn oils are wax-like products. Perhaps the best known example of this type is hydrogenated castor oil, which is mainly 12-hydroxy stearin. It is produced by Werner G. Smith and Du Pont, under the name Opalwax.

ETHYLENE OXIDE DERIVATIVES

Carbide and Carbon Chemicals Division, Union Carbide and Carbon Corp., has given the trade name Carbowax to its series of higher polyethylene glycols. Commercial Carbowax compounds are all mixtures of polymers of varying molecular weight and are grouped according to their mean molecular weight, as 1000, 1500, 4000 and 6000. Ethylene oxide can also condense with other compounds with active hydrogens, as alcohols, phenols, amines and amides to give polymers of varying wax-like properties.

The amides of higher fatty acids, as stearamide, are neutral chemicals of a high-melting, wax-like nature. Nitriles and amines of the higher fatty acids are also wax-like solids. These compounds are produced by Armour and Co. The Acrawaxes, produced by Glyco Products Co., are a series of complex nitrogen derivatives of the higher fatty acids, some of which have very high melting points.

Chlorinated paraffins may be liquid, semi-fluid or solid, depending on the type of paraffin chlorinated and the degree of chlorination. Commercial demand is for a chloro-paraffin of not less than 30% chlorine. Chlorowax is a highly chlorinated paraffin (about 70% Cl) made by the Diamond Alkali Co. Hooker Electrochemical Co. also produces a series of chlorinated paraffins. Chlorinated paraffins may be condensed with napthalene, and the latter chlorinated, or with napthalene already chlorinated, to produce hard waxes. All of the chlorinated waxes have desirable fire-retardants, and electrical-insulating properties.

The Santowaxes are synthetic hydrocarbon waxes, believed to have a terphenyl structure, and are marketed by the Monsanto Chemical Co. It is also possible to prepare a wax fraction in the Fischer-Tropsch synthesis.

MISCELLANEOUS

High molecular weight ketones as palmitone and stearone are wax-like in nature, but at present are not produced commercially. The I. G. waxes have again appeared on the American market, and a few words concerning their manufacture may be in order. Crude deresinified montan wax is oxidized vigorously to produce I. G. Wax "S," which is esterified with various alcohols or reduced to ketones and hydrocarbons. An entire series of waxes is available.[11]. In general, the various grades are used as components of wax blends to impart special properties to them.

I. G. waxes "G" and "L" are similar to "S" but made by a milder oxidation step. "E" is the ethylene glycol ester of "S"; "EG" the propylene glycol ester; "O" the butylene glycol ester. Wax "OP" is the butylene glycol ester of "S" saponified with lime. Wax "KP" is prepared by oxidizing raw montan wax (before deresinifying) and esterifying the product with a mixture of ethylene and butylene glycol. Wax "Z" is essentially a hydrocarbon; it is prepared by ketonizing the wax "S" or "L" by heating with iron powder in a closed vessel at 300° C. for 20 hours. The resulting ketones are reduced at 200 atmospheres pressure with hydrogen in the presence of a nickel catalyst at 300-335° C.

WAX BLENDS

Obviously it is possible to produce innumerable mixtures of waxes, but our discussion will be limited to those of commercial interest. Many of these mixtures have been described,[15] and are available commercially. Components added to a wax are of two general types: other waxes, generally cheaper ones, which do not detract significantly from the desired properties, and secondly, non-waxes, such as resins, cellulose derivatives, etc.

BLENDS OF WAX ONLY

The most important class here is a blend of natural waxes with the cheaper paraffins. Such blends are often referred to as ceresins. The base of these waxes is a refined paraffin; to this is added carnauba, candelilla, ouricuri or montan wax as a hardening agent and to raise the melting point, and beeswax, ozokerite or microcrystalline wax as a decrystallizing wax. Synthetic waxes are occasionally blended with natural wax to "boost" the melting point; Acrawax C may be so used, for example.

NON-WAX ADDITIVES

The addition of resins to waxes is of increasing importance. It has been known for some time that natural resins as Damars, Copals, rosin, etc., can be blended with the natural plant waxes. Synthetic resins are being used in increased amounts. For example, the addition of 10% Durez 219 resin to carnauba wax is said to give a

harder, glossier water emulsion polish. Synthetic resins which may be added to natural waxes include Durez (Durez Plastics and Chemical Co.), Shanco (Shanco Plastics and Chemical Co.), Lewisol (Hercules Powder Co.) and Piccolyte (Pennsylvania Industrial Chemical Corp.). One of the newer and more important developments has been the adoption of paraffin, micro and polyethylene blends.[10] Such blends are said to have improved tensile strength, toughness, gloss, sealing strength and blocking resistance. Addition of a small amount of petroleum wax to a commercial compound may serve to improve its water vapor resistance markedly.

In addition to the production of legitimate blends, there is a certain amount of adulteration practised by adding small amounts of any of the above relatively inexpensive materials to more expensive waxes such as carnauba.

WAX PROCESSING

PHYSICAL CHANGES

The most useful physical operation in wax operations is filtration, with solvent extraction a close second. Bleaching by means of clays may also be considered a physical operation.

In the case of the natural plant waxes, they are usually refined before use. No. 1 and No. 2 yellow carnaubas do not need refinement for most uses because of their light color and freedom from dirt. Most of the other waxes must have the dirt removed. This is done by adding the appropriate amount of filter aid and filtering through plate and frame presses. The filter cake residue is solvent leached to remove the wax contained in it, which is subsequently recovered by distilling off the solvent. As an alternative to plate and frame filtration, centrifuging is used with some waxes where the nature of the impurities lend themselves to such processing. Bleaching of the waxes may be done with bleaching clays, or chemicals.

The plate and frame and rotary filters, as well as centrifuges, used in paraffin wax processing have already been described. The solvent extraction methods used for paraffin waxes, sugar cane, and montans have also been discussed. Paraffin and microcrystalline waxes are color-refined by percolation through a vertical clay bed. The three types of bleaching clay commonly used are fuller's earth, activated clays and activated bauxite.

CHEMICAL PROCESSING

Bleaching may be accomplished as mentioned above, or it may be done chemically through an oxidation step. The preferred material for chemical bleaching of waxes in this country is hydrogen peroxide solution, which is fairly mild in its action and leaves no residue other than water.

Montan waxes are bleached by oxidizing the crude deresinified wax with either chromic acid or potassium dichromate. In the first method the chromic acid is regenerated electrically, and in the second the chrome-alum by-product is sold. Such vigorous oxidation makes a drastic change in the chemical composition of the wax. Oxidized microcrystalline waxes are of increasing commercial importance. They are prepared by blowing air through the heated wax in the presence of a catalyst, often cobalt or manganese soaps.

Various types of esterification and condensation reactions are carried out in manufacturing synthetic waxes. If the starting material is an alcohol and acid, water is a by-product. Since the ester formed is high-boiling, water can be distilled off from the reaction mixture; this can be facilitated by applying vacuum.

Paraffin wax can be chlorinated by simply melting the paraffin and bubbling chlorine gas through until the desired degree of chlorination is reached. Alternately, the wax may be dissolved in a solvent as carbon tetrachloride, and the chlorination performed.

Hydrogenations are of the low-pressure type and are carried out catalytically in low-pressure autoclaves.

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TABLE I—PHYSICAL PROPERTIES OF NATURAL WAXES

Wax	*Melting Point °F.*	*Acid Number*	*Saponification Number*	*Iodine Number*	*Specific Gravity*
Crude Beeswax	143.6–149	16.8–	88–	8.3–11	0.959–
			96		0.975
Candelilla	149–156.2	15.4–	47–65	17.4–	0.969–
		16.6		19.8	0.993
Carnauba					
#1 and	181.8–	1.30–	72.5–	9.95–	—
#2 yellow	183.8	2.05	81.0	10.6	
Carnauba					
Fatty Grey	182.2–	2.85–	73.5–	8.85–	
N. C. #3	185.3	4.85	83	10.6	—
Chinese Insect	177–	0.2–	78–93	1.4–2	0.926–
	181.4	1.5			0.970
Japan	122–	6–	206.6–	4.5–	0.975–
	132.8	20	237.5	12.8	0.984
	183.2–	12–	85–	7.1–	
Ouricuri	188.6	24	109	15	—
Palm—Powder Form	233.6	13.1	46.1	70.3	—
Palm—Lump Form	162.5	13.1	45	64.1	—
Spermaceti	107.6–	0.5	121–135	2.6–3.8	0.905–
	122				0.960
Sugar Cane	174.2–	23–28	65–77	—	—
	177.8				

TABLE II—MANUFACTURERS AND SUPPLIERS OF SYNTHETIC, BLENDED, MINERAL AND PETROLEUM WAXES

Number	*Company*
1	Alrose Chemical Co., Providence, R.I.
2	Atlantic Refining Oil Co., 260 S. Broad St., Philadelphia, Pa.
3	Bareco Oil Co., P.O. Box 2009, Tulsa, Okla.
4	Carbide and Carbon Chemicals Division, Union Carbide and Carbon Corp., 30 E. 42nd St., New York 17, N.Y.
5	Concord Chemical Co., Moorestown, N.J.
6	Cornelius Products Co., 386 Fourth Ave., New York 16, N.Y.
7	Diamond Alkali Co., Cleveland 14, Ohio.
8	E. I. Du Pont de Nemours & Co., Inc., Wilmington, Del.
9	Dura Chemical Co., Inc., 20 Vesey St., New York 7, N.Y.
10	Durez Plastics & Chemicals Inc., North Tonawanda, N.Y.
11	Esso Standard Oil Co., 15 W. 51st St., New York, N.Y.
12	General Wax Refining Co., 386 Fourth Ave., New York 16, N.Y.
13	Glyco Products Co. Inc., 26 Court St., Brooklyn 2, N.Y.
14	Industrial Raw Materials Corp., 52 Wall St., New York 5, N.Y.
15	Innis Speiden & Co., 117 Liberty St., New York 6, N.Y.
16	International Wax Refining Corp., 4415 Third Ave., Brooklyn, N.Y.
17	George H. Lincks, Inc., 155 John St., New York 7, N.Y.
18	Mamaroneck Chemical Corp., 442 Waverly Ave., Mamaroneck, N.Y.
19	Monsanto Chemical Co., St. Louis 4, Mo.
20	Ozokerite Mining Co., 144 N. Division Ave., Grand Rapids 2, Mich.
21	Petrolite Corp., Ltd., 5515 Telegraph Road, Los Angeles 22, Calif.
22	Shell Oil Co., 50 W. 50th St., New York 20, N.Y.
23	Socony-Vacuum Oil Co., Inc., 26 Broadway, New York 4, N.Y.
24	L. Sonneborn Sons, Inc., 300 Fourth Ave., New York 10, N.Y.
25	Standard Oil Co. (Ind.), 910 So. Michigan Ave., Chicago 80, Ill.
26	Standard Oil Co. of California, San Francisco 20, Calif.
27	Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa.
28	Velsicol Corp., 330 E. Grand Ave., Chicago 11, Ill.
29	Warwick Wax Co., Inc., 10-10 44th Ave., Long Island City 1, N.Y.

GRADES AND MANUFACTURERS OF COMMERCIAL WAXES[1]

Synthetic and Blended Natural Types

Trade Name	Commercial Grades	Color	Chemical and Physical Properties: M. P.	Penetration	Acid No.	Sapon. Value	Principal Uses	Special Characteristics	Mfr. or Supplier[2]
Acrawax	Solid	Tan	95–97C.	.....	.....	.....	Lubricant; anti-tack agent for vinyl organisols; impregnating wax for leather packing highly resistant to oil and water.	Insoluble in water and cold solvents. Partially soluble in hot hydrocarbons. Soluble in hot toluol and alcohols.	13
Acrawax B	Solid	Light brown	86–90C.	.....	.....	.....	Lubricant and anti-tack agent for butyl and neoprene rubber; flatting agent.	Forms gels in mineral spirits and kerosene.	13
Acrawax C	.....	Cream-tan	140–142C.	.....	.....	.....	Anti-blocking and anti-tack agent for plastics and rubbers. Asphalt — increase melting point, decrease cold flow. Electrical applications. Cable fillers. Insulation coatings. Heat sealants; steel and alloys dry drawing lubricant; lubricant for metal powders.	Very high melting point and flash point; hardness; insolubility in water and cold solvents.	13
Acrawax CT	Solid Coarse #2 Powdered (100 mesh) Atomized (3–5 microns)	Brown							
Albacer	Solid	White	99–104C.	.....	.....	.....	Coatings. Paraffin additive. Lubricant.	Hardness and white color. Insoluble in water and alcohol. Soluble in hot hydrocarbons.	13
Alrowax 75	Flakes or solid cakes	Yellow	75C.	.....	.....	.....	Increasing viscosity of liquid detergents; foam stabilizer; thickening agent for lubricating oils; gelling and spreading agent in paste and liquid polishes, etc.	Gelling agent for both water petroleum products.	1
Alrowax 140	Fine powder or lumps	White to light cream	140C.	.....	.....	.....	For electrical condenser coatings, wire and cable insulation; in asphalt, resin and plastic compositions for increased water resistance; as a boiler defoament; in paraffin paper coatings for improved anti-blocking and laminating strength; in candles, dental impression compounds and carbon paper, etc.	High melting point, inertness, hardness; high dielectric resistance. Small amts. improve adhesion of other waxes to metal surfaces.	1
Aquawax	Refined	White, similar to Japan wax	46.8C.	.....	.....	166.6	Laundry starches lubrication for thread cords.	Similar to Japan wax with added quality of being self-emulsifiable.	
"B" Wax	1007 1008	Extra white bleached—light yellow refined	149F.	.....	20	93	Beeswax substitute—cosmetics, ointments, coatings, polishes, greases, rubber, inks, textiles and leather treating.	Excellent emulsification; does not go rancid; non-toxic.	16
Beeswax synthetic	#619	Yellow	146–150	16–18	18–20	91–96	Replace corresponding grades of natural beeswax in mfr. of cosmetics, dressings, candles, crayons, etc.	Similar to natural beeswax in properties and performance.	12
	776	White	146–150	12–14	18–20	91–95			
	1429	Amber	186–188	8–10	8–10	65–70			
Canawax	1018	Yellowish	100–110C.	.....	30–40	40–60	Shoe and leather polishes, paints, paste polishes, emulsions, inks, sizes, filler.	Very hard; inexpensive; replacement for carnauba, candelilla, ouricury.	16
Candelilla Substitute	#1438	Amber	167–169F.	3–5	5–6	58–62	Used in same applications as natural candelilla wax, such as cosmetics, dental compounds, chewing gum, etc.	Are non-toxic materials which closely resemble natural candelilla wax in properties and performance.	12
	#1448	Amber	166–168	4–6	4–6	64–68			
	#1471	Amber	153–156	5–7	5–7	58–62			
Carbowax Compound 1000	1000	Cream	.....	.....	.....	.....	Chemical intermediate in preparation of fatty acid esters; pharmaceutical bases; textile lubricants and sizes.	Water solubility	4
	1000W	White	.....	.....	.....	.....			
Carbowax Compound 1540	1540	Cream	.....	.....	.....	.....	Chemical intermediate in preparation of fatty acid esters; pharmaceutical bases; textile lubricants and sizes.	Water solubility.	4
	1540W	White	.....	.....	.....	.....			
Carbowax Compound 4000	4000	Light yellow	.....	.....	.....	.....	Release agent for rubber molds; lubricant for certain extrusion operations; textile lubricants; release films for decalcomania transfers; medicament bases; dispersing agent for hormones and dyes; binder for ceramic colors, pigments, water paints, kalsomines, and water-soluble crayons. Cake vehicles for plant hormones, herbicides, detergents.	Hard, translucent solid which is water soluble.	4
	4000W	White	.....	.....	.....	.....			
	4000 U.S.P.	White	.....	.....	.....	.....			
Carbowax Compound 6000	6000	Light yellow	.....	.....	.....	.....	As above.	Hard, translucent solid which is water soluble.	4
	6000W	White	.....	.....	.....	.....			
Carbowax Compound PF-43	50% aqueous solution	Tan	.....	.....	.....	.....	Sizing, lubricating, and binding agent in textile compounds; as a binder in ceramics, chalk, crayons, sand molds, metal powders, and detergent cakes; as a lubricant in paper and textile calendering operations.	Water solubility; remarkable toughness and resilience; excellent adherence to most surfaces.	4
Casting Wax	#1546	Amber	156–158	2	12–13	35–37	Used for precision casting of jewelry and of machine tools.	Yields low shrinkage and distortion; can be injected at moderate temperatures.	12
	1547	Amber	156–158	2	10–11	33–35			
Ceramid	Solid	Yellow	79.5–80.5C.	.....	.....	.....	Anti-tack agent. Flatting agent. Lubricant. Wax blends.	Soluble in cold solvents in low percentages.	13
Cerax	#1320	Yellow	190–191F.	0–1	2.5–2.6	170–175	Carnauba replacement in paste polishes (solvent type).	Excellent solvent binding power; produces high gloss and smooth textured paste.	12
Cerita	27	Brown	85C.	.....	0	20–25	All paste polishes.	.....	18
	83	White	49–50C.	.....	22	190	General Japan wax uses.	.....	18
	86	Lt. yellow	62–65C.	.....	2	123	General Japan wax uses.	.....	18
	135	White	52C.	.....	3.3	201	General Japan wax uses.	.....	18
	111	Off-white	85C.	.....	5–7	169–170	Replace carnauba wax in paste polishes for floors, shoes, autos.	.....	18
	143	Light candelilla color	83–84C.	.....	4	94	Candelilla replacement for paste polishes.	.....	18

1. Suppliers of natural types, properties of which are given in Table I, can be found in CHEMICAL INDUSTRIES BUYERS GUIDE.
2. Numbers refer to manufacturers and suppliers listed in Table II.

Synthetic and Blended Natural Types

Trade Name	Commercial Grades	Color	Chemical and Physical Properties: M. P.	Penetration	Acid No.	Sapon. Value	Principal Uses	Special Characteristics	Mfr. or Supplier
Cerita	146	Light candelilla color	69–70C.	.....	18	70–71	Candelilla replacement for use in gum.	.....	18
	77	Brown	79C.	.....	18	51	General carnauba wax replacement.	.....	18
	519	White	62C.	.....	21.1	96.3	Beeswax replacement, white; general beeswax use.	.....	18
	501	Lt. yellow	62C.	.....	21.1	96.3	Beeswax replacement, yellow; general beeswax use.	.....	18
Ceroflex	#1610	Lt. yellow	214–218F.	3	0	0	Excellent additive to other waxes in pastes; also good carnauba replacement in mfr. of records and plastics.	Unusually high melting point and flexibility. Films produced are non-hazy and non-brittle.	12
Chlorowax 70	.....	Cream powder	95–110C.	.....	.....	.....	Paints; textile treating; polishes; emulsions; dispersions; printing inks.	Fire retardant; water repellent.	7
Concord Wax #159	Refined	Light brown similar to carnauba	84C.	.....	.....	66.9	Carnauba wax replacement for water wax emulsion, floor polish, paper sizing and polish, citrus fruit wax dips, protective coating, leather finishing and dressings.	Produces excellent water wax emulsion of fine particle dispersion, good gloss, waterproof and wearing qualities.	5
Concord Wax #190	Refined	Light brown similar to carnauba	90C.	.....	.....	19.9	Carnauba wax replacement for paste and liquid solvent polishes, leather, packings, phonograph record mfg., etc.	Higher melting point than carnauba, compatible with most mineral and vegetable waxes.	5
Cornelowax	#1678	Brown	275–285F.	3	10–15	16–18	Used as mold lubricant for foam rubber and in electrical insulation.	Has high electric volume and surface resistivity and is unusually water-resistant.	12
Cornelowax	#1822	Amber	199–201	3–4	11–13	60–62	Carnauba replacement in solvent paste polishes, also for liquid solvent waxes. Used also in carbon paper mfr.	Unusual solvent retention qualities; produce non-shrinking pastes of high quality and firm carbon paper surface.	12
	1800	Lt. brown	165–170	8–10	45–48	80–85	Base for water emulsion paste wax used on asphalt tile flooring.	Produces non-slip water-resistant film which will not injure asphalt tile.	12
Diglycol Stearate S	Beads	White	54–59C.	.....	.....	0.96	Anti-tack agent for raw rubber. Lubricant for aluminum and tin, rubber and vinyls. Plasticizer for paper, etc.	Water dispersibility. Lubrication.	13
Durawax	#772	Gray	158–162F.	0–½	8–9	22–25	As hardening agents for softer waxes in various types of application: mfr. of candles, cosmetics, pencils, etc.	Produce no shrinkage or distortion when molded; #1032 especially good in cosmetics, etc., because nontoxic.	12
	1032	Lt. amber	184–186	½–1	1–2	15–18			
	1227	Yellow	188–192	1–2	25–30	53–55			
Durez 13069	.....	Medium brown opaque	140–145C.	.....	.....	.....	Coatings for cellophane, paper; electrical insulation.	High m.p.; excellent electrical properties and water resistance; does not emulsify readily, but modifications do.	10
Emulsowax	#1214	Amber	162–165F.	0–½	28–32	103–110	Used in place of carnauba wax or other hard vegetable waxes in manufacture of water emulsion (self-polishing) waxes. In addition to use in floor polishes, etc., also serve as base for various types of spray applications on rubber, tiles, paper, etc. Used in bright-drying leather finish compounds.	Produce a smooth, glossy finish without buffing. Are non-tacky and slip-resistant. Have good wearing qualities. Are cheaper than standard vegetable waxes. Are readily emulsified and form good dispersions.	12
	1508	Amber	162–165	0–½	30–34	119–126			
	1214A	Amber	162–165	0–½	28–32	103–110			
	1508A	Amber	162–165	0–½	30–34	119–126			
	1742	Lt. brown	176–178	0–½	24–26	108–112			
	1825	Lt. brown	180–182	1–2	39–41	61–63			
	1530	Brown	180–185	0	22–26	110–120			
	1630	Amber	178–182	0	20–25	105–110			
	1760	Lt. brown	178–180	1–1½	28–30	80–84			
Flexo Wax C Lt.	Slabs	Cream	57–61C.	.....	.....	.....	Adhesives.	Tacky, plastic.	13
Flexo Wax C	Solid	Amber	63–65C.	.....	.....	.....	Adhesives. Coatings, waterproof. Lubricant. Water repellent.	Plastic and adhesive.	13
*Gersthofen Wax O & OP	.....	Light yellow	102–106C.	10–15	110–125	.....	Paste polishes. Leather dressing.	Can absorb very large amounts of organic solvents and hold them bound.	17
Gersthofen Wax E	All grades	Yellow	78–82C.	15–20	155–175	.....	Liquid polishes.	Very easily saponified and emulsified; has light color, good luster, and crystalline structure.	17
Gersthofen Wax S	All grades	Very light yellow	80–83C.	.....	145–160	165–185	Carbon paper, leather dressing.	Pronounced crystalline type of bright color; very hard; gives high luster with no cloudiness. Pronounced absence of tack in film.	17
Gersthofen Wax L	All grades	Light yellow	80–83C.	.....	125–145	150–170	Carbon paper, leather dressings.	.....	17
Gersthofen Wax Special	All grades	Very dark brown	90–93C.	.....	13–18	95–110	Shoe polishes.	Fine luster in shoe polishes; designed for black shoe polish especially.	17
Gersthofen Wax CR	.....	Very dark brown	90–93C	.....	13–18	95–110	Shoe polishes.	Similar to Wax E in emulsifiability but darker; used with Wax Special in black shoe polish.	17
Gersthofen Wax KP	.....	Light tan	80–83C	.....	20–30	130–145	Carbon paper.	Very similar to carnauba; hardness and fine crystalline structure designed for carbon paper.	17
Gersthofen Wax KPS	.....	Yellow	80–83C.	.....	20–30	130–145	"No rub" floor polishes.	Easily emulsified to give products that dry to bright luster; neutral emulsifier preferred for self-polishing emulsions.	17
Glyco Wax S932	Flakes	White	57–61C.	.....	.....	.....	Greaseproof coatings, wax blends. Plasticizer for chewing gum.	Edible.	11
Inkowax	H 1226	Yellow	183–185F.	.....	26–28	64–67	Used as carnauba replacement in mfr. of printing inks and lithographic varnishes.	Produces glossy, hard-surfaced inks at lower cost than carnauba wax; also has good slip.	12
Intawax	1015	Amber	.....	.....	.....	.....	Same as Canawax, but also used in "no-rub" polishes.	.....	16
Isco Beeswax Substitutes	#662	Yellow	62–65C.	.....	17–19	90–94	Same as for beeswax.	Emulsifiable.	15
	#663	Yellow	62–65C.	.....	17–19	90–94			
Isco Japan Wax Substitute	#525	Cream	135–136F.	.....	9–10	186–190	Textile finishes, crayons.	Emulsifiable.	15
Karagami Wax	Refined	White, identical to Japan wax	50C.	.....	6.8	199.4	Japan wax replacement for: Laundry waxes, laundry glazes, polish creams, textiles finishes, metal drawings, lubricants, sizing compounds.	Chemical and physical characteristics identical to Japan wax. Used for most every purpose where Japan wax formerly used.	5

** Gersthofen waxes are produced in the same plant and according to the same process as the former IG waxes.*

Synthetic and Blended Natural Types

Trade Name	Commercial Grades	Color	Chemical and Physical Properties: M. P.	Penetration	Acid No.	Sapon. Value	Principal Uses	Special Characteristics	Mfr. or Supplier
Nipocera	#966 988 979	White White White	125–130F. 125–130 133–136	22–24 20–25 22–24	1.5–2.5 2–5 2 max.	190–198 180–200 180–190	Replace natural Japan wax in mfr. of buffing compounds, pencils, leather dressings, textile finishes, etc.	Similar to natural Japan wax in high saponification value and in general performance.	12
Opalwax	.....	Pearl white	85–88C.	.....	3.0 max.	.....	Hot melt adhesives; electrical impregnant; wood finishes, leather dressings; metal drawing lubricant, paper coating, impregnating; rubber; textile finishes.	Good electrical properties; very hard, brittle and practically odorless.	8
Palmeto	1019	.....	.....	.....	.....	.....	"No rub" polishes.	Makes stable non-tacky "no rubs" at low cost.	16
Parwax	Refined	Light brown similar to carnauba.	93C.	.....	12	61	Carnauba wax replacement specifically for carbon paper industry. Excellent for use in solvent polishes.	Gloss, oil retention, solvent retention considerably better than carnauba. Viscosity and melting point equal to carnauba.	5
PIW	#1629 1631 1632	White White White	194–196F. 191–193 195–197	6–7 12–14 18–20	0 0 0	0 0 0	Used in mfr. of protective packaging and other types of wax-treated papers; also in electrical and other products for hot melt coatings.	Are pliable, tasteless, odorless and non-toxic. Highly resistant to penetration by water or by fats. Have good adhesive qualities.	12
Rezo Wax B	Solid and Beads	Brown	95–110C.	.....	.....	.....	Lubricant for phenol-formaldehyde resins. Montan wax replacement.	Very hard; dispersible in hot water; soluble in hot hydrocarbons.	13
Santowax R	.....	NPA—3.5–4.5	60–145C.	.....	.....	.....	Constituent of wax and lacquer type coatings for paper as moisture proofing compositions for the packaging industry.	Good heat stability and does not react with 10% H_2SO_4 or 10% NaOH.	19
Seed Coating Wax	#1679A	Brown	133–135C.	35–40	0	0	Used in emulsion which acts as sticker for agricultural fungicides.	Permits obtaining of good results with lower quantity of fungicide; has good adhesion.	12
Solvawax	#1292 1402	Lt. gray Lt. gray	188–192C. 180–182C.	2–4 3–5	19–21 16–18	145–150 128–135	Carnauba replacements in liquid solvent polishes for floors, furniture, woodwork, etc.	Produce stable, non-settling polishes of low viscosity which yield high gloss on buffing.	12
Stroba Wax	Solid	Tan	98–102C.	.....	.....	.....	Flatting agent. Wax blends. Paste polishes.	Gelling agent for hydrocarbons, hard, good luster.	13
Syrex 100	One grade only	Similar to #3 carnauba	174F.	.....	7–9	21–24	Hard wax replacement.	Specially adapted for use in polish formulations, including "dry-bright" type. Readily emulsified.	28
Syrex 200	One grade	Light amber (Similar to #1 carnauba)	190F. (soft pt.)	.....	.....	.....	Hard wax replacement, especially in polish formulations. Addition to polish formulations containing hard wax resilts in increased transparency, luster, and durability.	Natural film former. When modified with softer waxes, can be made to simulate hard wax. Acts as a mutual solvent in hot melts. Recommended particularly for use in "dry-bright" formulations. Readily emulsified.	28
Wax No. 1001	.....	Light tan	78–80C.	.....	14	70	Water and paste waxes and other carnauba uses.	Carnauba substitute; also can replace candelilla and ouricuri.	16

Mineral Waxes

Cerelne	#901 #902 #891 #725 #275 #375	White, yellow	127–130F. 130–135F. 135–140F. 140–150F. 150–160F. 160–165F.	.....	.....	.....	Candles, carbon paper, cosmetics, crayons and pencils, dental compounds, food coatings, printing inks, insulating leather finishes and dressings, lubricants, paper coating, etc.	.....	12
Ceresine	Various melting points	White Yellow Orange	Various	.....	.....	.....	Textiles, paper, polishes.	Chiefly compounds of various types.	15
Montan, American	#1950 #1644	Dark brown Dark brown	180–185F. 180–190F.	½–1 1–2	0 35–44	0 75–80	Leather finishes and dressings, phonographic records, carbon paper, waterproofing rope, etc.	.....	12
Montan, Bohemian	Crude lump and powder	Br-Black Brown	172–177F.	.....	.....	.....	Insulation, rubber compounding, plastics.	Hard and brittle.	15
Montan	German Czecho-slovakian	Dark brown Dark brown	180–190F. 175–185F.	0–½ 0–1	28–35 30–40	65–75 65–75	Similar to American Montan.	.....	12
Durmont 500 Refined Montan	Prime	Light tan	88.5C.	¾	3.8	37.1	Manufacture of solvent type polishes. Carbon paper inks and carbon paper back coatings. Wax compositions.	High oil and solvent absorption power. Excellent gloss, hardness. High melting point.	9
Ozokerite	#869 #870 #861 #863 #871 #447 #646	Amber White Amber Yellow White Amber Yellow	170–175F. 170–175F. 190–195F. 190–195F. 190–195F. 195–200F. 195–200F.	15–20 15–20 5–10 2–7 2–7 2–5 3–8	.....	.....	Similar to ceresine.	.....	12
Three Star Ozoke.ite	#1055 1066	Snow-white Natural yellow	195–8F.	.....	.....	.....	Cosmetic cream, ointments, leather and textile dressings, adhesives, containers, paper; substitute for carnauba and beeswax in certain applications.	Prevents lumps or crystals; won't sweat; mixes readily with all waxes; makes opaque creams; high oil absorption and retention capacity.	16
Ozokerite Utahwax	#1 #3 #4 #5	Black Black Lt. yellow White	189–190F. 171–172 172–173 172–173	½–1 1½–2½ 7–8 7–8	.....	.....	Cosmetics; carbon paper inks; printing inks; shoe, floor, furniture and auto polishes; crayons; sealing, insulating and water-proofing compounds.	Tough, dry, hard waxes. Thin coat covers completely. Emulsifiable, soluble in hot solvents, compatible in all proportions with all waxes; unaffected by acids or alkalies.	20

Petroleum Types

Trade Name	Commercial Grades	Color	Chemical and Physical Properties: M. P.	Fl. P.	Penetration	Visc.	Principal Uses	Special Characteristics	Mfr. or Supplier
Atlantic Durafin Wax	.....	.....	.....	.....	.....	.....	Milk carton wax	.....	2
Be Square	190B	Black	190–195F.	.....	2–7	.....	Packaging, coatings, candles, polishes, etc.	Microcrystalline	3
Be Square	190A	Amber	190–195	.....	2–7	.....	Packaging, coatings, candles, polishes, etc.	Microcrystalline	3
Be Square	190W	White	190–195	.....	2–7	.....	Packaging, coatings, candles, polishes, etc.	Microcrystalline.	3
Be Square	180B	Black	180–185	.....	7–11	.....	Packaging, coatings, candles, polishes, etc.	Microcrystalline.	3

Petroleum Types

Trade Name	Commercial Grades	Color	Chemical and Physical Properties M. P.	Fl. P.	Penetration	Visc.	Principal Uses	Special Characteristics	Mfr. or Supplier
Be Square	180A	Amber	180–185	...	7–11	.....	Packaging, coatings, candles, polishes, etc.	Microcrystalline.	3
Be Square	180W	White	180–185	...	7–11	.....	Packaging, coatings, candles, polishes, etc.	Microcrystalline.	3
Be Square	170B	Black	170–175	...	15–20	.....	Packaging, coatings, candles, polishes, etc.	Microcrystalline.	3
Be Square	170A	Amber	170–175	...	15–20	.....	Packaging, coatings, candles, polishes, etc.	Microcrystalline.	3
Be Square	170W	White	170–175	...	15–20	.....	Packaging, coatings, candles, polishes, etc.	Microcrystalline.	3
Cardis	#320	4–5 NPA	180–185	...	4–7	.....	Polishes.	Formation of glossy films from emulsions. Replacement of vegetable waxes.	29
Cardis	#319	4½–6	180–185	...	4–6	.....	Polishes.	Formation of glossy films from emulsions. Replacement of vegetable waxes.	29
Cardis	#314	4–5	185–188	...	4–5	.....	Polishes.	Formation of glossy films from emulsions. Replacement of vegetable waxes.	29
Cardis	#262	Brown	195–200	...	4–6	.....	Carbon paper ink.	Superior properties of carbon dispersion and production of flow.	29
Ceraweld	CWB	Brown	155	...	20–25	.....	Packaging, coatings, etc.	Microcrystalline.	3
Ceraweld	CWA	Amber	155	...	20–25	.....	Packaging, coatings, etc.	Microcrystalline.	3
Ceratak	CT155	Amber	155	...	25–35	.....	Packaging, coatings, etc.	Microcrystalline.	3
Ceratak	CT165	Amber	165	...	25–35	.....	Packaging, coatings, etc.	Microcrystalline.	3
Concord Microcrystalline Wax #88	.....	Yellow Brown	148	...	16	.....	Food packaging; vat and tank lining; wire and cable insulation; coils; condensers; fabric treating; waterproofing leather treating.	.....	5
Concord Microcrystalline Wax #112	.....	Yellow	170–175	...	15–20	.....	Same as above.	.....	5
Crown 23	.....	6NPA	180–185	...	6	.....	Emulsion polish formulation, carbon paper mfg., fruit coating emulsions.	Ease of emulsification. Wide range of compatability. High melting point. Purity and uniformity. Low penetration and high gloss.	21
Crown 36	.....	8	180–185	...	8	.....	As above.	As above.	21
Crown 200	.....	Brown	190–195	...	10	.....	Intulating compound, coatings, paste polishes.	Hardness, high melting point, block resistance.	21
Crown 500	.....	2½	190–195	...	10	.....	See below.	Hardness, high melting point, purity.	21
Crown 700	.....	2½	190–195	...	5	.....	Paste polishes; anti-block agent and gloss improving agent in paper coatings; electrical insulating compounds, printing ink mfg.	Block resistance, low oil content, high melting point. Purity.	21
Crown 1035	.....	2	195–200	...	2	.....	Paste polishes. Hardness and gloss improvement in blends of paraffin wax; anti-block additive, electrical insulating compounds; printing ink mfg.	Low oil content, hardness, and high melting point are the outstanding characteristics.	21
Fortex	.....	3½	198	...	2	.....	Printing inks. Paper coating.	High tensile strength, increases water vapor resistance of paraffin coatings.	21
Indrafina	Series	White	120–122 to 143–145	...	.....	.....	Coatings, etc.	Odorless.	14
Indracina	Series	White	145–150 to 185–190	...	.....	.....	Coatings, etc.	Odorless, tasteless.	14
Indracera	Series	White	122–124 to 133–135	...	.....	.....	Coatings, etc.	Maximum 1% oil.	14
Indra	BSO	Black	170–175	...	15–20	.....	Coatings, etc.	.....	14
Indra	BSO	Amber	170–175	...	15–20	.....	Coatings, etc.	.....	14
Indra	BSO	White	170–175	...	15–20	.....	Coatings, etc.	.....	14
Indra	BSO	Black	190–195	...	2–7	.....	Coatings, etc.	.....	14
Indra	BSO	Amber	190–195	...	2–7	.....	Coatings, etc.	.....	14
Indra	BSO	White	190–195	...	2–7	.....	Coatings, etc.	.....	14
Indrasnow	BSO	Black	190–195	...	2–7	.....	Coatings, etc.	Powdered	14
Indrasnow	BSO	Amber	190–195	...	2–7	.....	Coatings, etc.	Powdered	14
Indrasnow	BSO	White	190–195	...	2–7	.....	Coatings, etc.	Powdered	14
Indra	QX	Amber	145–150	...	18–22	.....	Electrical insulation.	High dielectric	14
Indra	QM Series	.....	155–175	...	10–20	.....	General industrial uses.	Microcrystalline.	14
Indramic	544B	Black	155	...	.....	.....	.....	Microcrystalline.	14
Indralatum	C	White	130–140	...	10	.....	General industrial use.	Slack wax.	14
Indrox	1048	.....	80C.	...	10	.....	Polishes.	Emulsifiable.	14
Indrox	9023	.....	85C.	...	2–5	.....	Polishes.	Emulsifiable.	14
Jet Black	.....	Black	185	...	11–16	.....	Coating compounds, additive in plastic mfg., additive in rubber mfg.	High melting point, hardness, low oil content.	21
Mekon	A20	6–7	190–195	...	3–5	.....	Paper coatings. Carbon paper ink. Polishes. Crayons.	Hard and brittle.	29
	B20	Brown	190–195	...	3–5	.....	.....	.....	29
	Y20	3–3½	190–195	...	3–5	.....	.....	.....	29
Microcrystalline Wax No. 1385	.....	Amber	145–150	...	17–22	85–95	Candles, carbon paper, cosmetics, crayons and pencils, dental comp'ds., food coatings, printing inks, lubricants, paper coatings, polishes.	.....	12
No. 1365	.....	White	145–150	...	17–22	80–90			
No. 1946	.....	Amber	155–160	...	35–40	70–75			
No. 1339	.....	Amber	160–165	...	25–35	60–70			
Microcrystalline Wax	.....	.....	135 avg.	...	.....	.....	Wax compounding. Waterproofing kraft paper, cotton duck and canvas. Paper coating and dry waxing. Textile impregnant. Lubricants. Wire coating. Paper laminant. Wire rope lubricant. Leather treating.	.....	2
	.....	.....	147 avg.	...	.....	.....			
	.....	.....	168 avg.	...	.....	.....			
	.....	.....	122 avg.	...	.....	.....			
	.....	.....	160 avg.	...	.....	.....			
	.....	.....	175 avg.	...	.....	.....			
Multiwax D-445	.....	Dark olive	155	...	45–60	75–85	Electrical insulation and moisture for impregnating, potting and sealing, radio condensers.	Resistance to moisture vapor and corrosive materials, good flexibility, high m. p.	24
Multiwax ML-445	.....	Light yellow	155	...	23–35	75–85	Lamination of foil, cellophane, kraft, glassine, sulphite, fiberboard, etc., insulation.	Low moisture vapor permeability, good flexibility, high adhesion, minimum bleeding tendency.	24
Multiwax B-445	.....	Amber	155	...	40–50	75–85	Similar to D-445.	Similar to D-445.	24
Multiwax BH-445	.....	Amber	155	...	35–40	75–80	Coatings, laminating.	Moisture-vaporproofness, flexibility, good bonding.	24
Multiwax W-445	.....	White	155	...	25–35	75–85	Similar to D-445; cosmetics.	Similar to D-445, odorless, tasteless, holds oil without sweating, hard yet non-crystalline, flexible.	24
Multiwax PC-150	.....	Light yellow	150	...	25–30	60–75	Coatings, laminating.	Moisture-vaporproofness, good adhesion, flexibility.	24

Petroleum Types

Trade Name	Commercial Grades	Color	Chemical and Physical Properties: M. P.	Fl. P.	Penetration	Visc.	Principal Uses	Special Characteristics	Mfr. or Supplier
Multiwax D-835	.....	Dark olive	145	...	70–80	70–80	Coatings, laminating.	Moisture-vaporproofness, good adhesion, flexibility.	24
Multiwax W-835	.....	White	145	...	70–80	70–80	Cosmetics.	Holds oil without sweating, hard yet non-crystalline, high m. p. but not brittle, odorless and tasteless.	24
Multiwax X-145	.....	Light yellow	144	...	41	.....	Coatings, laminating.	High heat stability, moisture-vaporproofness, good adhesion.	24
Paraffin	Usual range of ordinary paraffines.	.....	Various	...	.....	.....	See below.	.....	23
Paraffin	Fully refined Semi-refined (Crude scales) Match wax Slack wax	White White Brown Various	120–122 to 132–134	...	.....	.....	See below.	.....	12
Paraffin	.....	.....	125–130	...	.....	.....	Paper milk cartons	High tensile strength	26
Paraffin	.....	.....	143–150	...	.....	.....	Waxed paper products.	High gloss and sealing strength.	26
Paraffin	.....	.....	160–165	...	.....	.....	Carbon paper and candles.	High melting point.	26
Paraffin	.....	.....	124–126	...	.....	.....	Paper dry waxing. Candles.	.....	2
			128–130	...	.....	.....	Rubber compounding. Candy novelties. Paper caps and discs.		
			133–135	...	.....	.....	Dynamite cartridges.		
Paraffin	.....	.....	123–127	...	.....	.....	Paper dry waxing. Fabric sizing. Florists' paper. Fibreboard food containers. Paper caps and discs. Wire coating.	.....	2
			128–130	...	.....	.....			
			133–135	...	.....	.....			
			138–140	...	.....	.....			
			143–145	...	.....	.....	Candles. Kitchen roll, etc.		
Paraffin	Refined	.....	Series 125–151	...	.....	.....	Food packaging, candle manufacture, polish manufacture, etc.	.....	11
Paraffin	Refined	.....	130–132	...	13	.....	Waxed papers, bread wraps, paper milk cartons.	.....	22
Paraffin	Refined	.....	132–134	...	9	.....	Waxed papers, bread wraps, paper milk cartons.	.....	22
Paraffin	Refined	.....	138–140	...	7	.....	Waxed papers, bread wraps, paper milk cartons.	.....	22
Paraffin	Refined	White	132–135	...	.....	.....	Waxed papers, bread wraps, paper milk cartons.	.....	29
Paraffin	Refined	White	122–124	...	.....	.....	Paper coating, waterproofing, cosmetics, etc.	Brittle, high tensile strength, thin large plate-type cystals.	25
	Refined	White	125–127	...	.....	.....			
	Refined	White	127–129						
	Refined	White	130–132						
	Refined	White	132–134						
	Refined	White	135–137						
Sunoco* Wax 5512	Refined	White	151*	...	9	43	Polishes, paper coating, blending with convention paraffin grades.	Extremely hard, very low oil content, gives very high gloss in finishes, with no oily feel. Non-blocking.	27
Shell MX 145 Yellow	.....	Yellow	142*	...	18–24	.....	Coatings and laminations.	.....	22
Shell MX Wax 165 Dark Amber	.....	Dark Amber	165–175	...	100	.....	Coatings and waterproofing applications.	.....	22
Shell MX 170 Dark Amber	.....	Dark Amber	170–185	...	15	.....	Coatings and laminations.	.....	22
Shell MX 170 Yellow	.....	Yellow	170–185	...	15	.....	Coatings and laminations.	.....	22
Starwax 50	SW50	Brown	180	...	14–18	.....	General industrial uses.	.....	3
Starwax 100	SW100	Amber	180	...	14–18	.....	General industrial uses.	.....	3
Superla Wax Yellow	.....	3–3½	167	...	11	63	Electrical insulation, anti-suncheck in rubber.	Dry, brittle, high shrink, small needle crystals, moderate shrink, low adhesiveness.	25
Superla Wax White	.....	1	167.2	...	10	61.5	Stabilizer for vinylite dispersions, etc.	Dry, brittle, high shrink, small needle crystals, moderate shrink, low adhesiveness.	25
Stanolind Wax Yellow 170–175	.....	2½–3	175	...	15	55	Modifier for paraffin for paper coating; cosmetics, etc.	Brittle, large needle crystals, high shrink.	25
Stanolind Wax White 170–175	.....	White	174.5	...	15	55	Modifier for paraffin for paper coating; cosmetics, etc.	Brittle, large needle crystals, high shrink.	25
S/V Cerese Wax	Yellow	1½–2	170	460	12	70	Coating electrical equipment. Lining containers, tanks and pipelines, for corrosive liquids and beer and wine.	Flexible without tackiness. Microcrystalline.	23
	AA	4–4½	170	460	12	70			
S/V Magnawax	Amber	3–3½	160	500	25	120	Laminating paper. Water proofing fabrics. Dip sealing packages.	Especially high bonding strength, and flexibility at low temperatures. Microcrystalline.	23
	Brown	3½–4½	160	500	25	120			
S/V Micropar	A	2½	155	450	20	50	Coating electrical equipment. Lining container, tanks and pipelines, for corrosive liquids, and beer and wine.	Flexible without tackiness. Blend of micro waxes.	23
	B	3½	140	430	30	45			
S/V Petrosene	A	1½–2	166	460	20	70	Coating electrical equipment. Lining containers, tanks and pipelines, for corrosive liquids, and beer and wine.	Flexible without tackiness. Microcrystalline	23
	B	4–4½	166	460	20	70			
	C	3½–4½	166	460	20	70			
S/V Product	2310	1½–2	155	460	30	70	Laminating paper. Water proofing fabrics. Dip sealing packages.	Good adhesiveness, tensile strength and bonding strength. Flexibility at low temperature. Microcrystalline.	23
	2305	3–3½	155	460	30	70			
	2300	3½–4½	155	460	30	70			
S/V Sovawax	D	Plus 30, Saybolt	122–127	...	.....	.....	Coating paper milk containers.	Low oil content. Tensile strength, elongation and bonding strength superior to ordinary paraffin waxes.	23
Victory	V165B	Brown	165 min.	...	25–35	.....	Packaging, coatings, polishes, candles, etc.	Microcrystalline.	3
Victory	V165A	Amber	165 min.	...	25–35	.....	Packaging, coatings, polishes, candles, etc.	Microcrystalline	3
Victory	V155B	Brown	155 min.	...	25–35	.....	Packaging, coatings, polishes, candles, etc.	Microcrystalline.	3
Victory	V155A	Amber	155 min.	...	25–35	.....	Packaging, coatings, polishes, candles, etc.	Microcrystalline.	3
Tervan 2536	1	Yellow	175	...	.....	.....	Food packaging, beer can linings, polishes, etc.	Hard, dry, moderately flexible. Microcrystalline.	11
Tervan 2850	1	Off white	126	...	.....	.....	Coating of milk cartons and other food containers.	Strength and flexibility. Odorless, tasteless blend.	11
Warco Wax	#155	Brown	153–158	...	20–25	.....	Paper coating.	Plastic and flexible, high tensile strength and water vapor resistance. Microcrystalline pertolatum wax.	29
White Crude Scale Wax	1	White	126	...	.....	.....	Devotional lights, manufacture of chemicals, etc.	Highest quality scale wax. Paraffin containing about 2% oil.	11

Waxes for any desired use can be made at Sun Oil Co.'s flexible new wax plant which the company says permits production of waxes previously unobtainable. This is just one example of a higher melting point paraffinic type wax.
Note: *The Texas Co. has manufactured petroleum waxes, and will continue to make a variety of such products, but its new plant at Port Arthur, Tex. is just going into production and data on the grades to be produced are not yet available.*

IF YOU USE HYDROGEN AT THE RATE OF . . .	YOU SHOULD . . .
over 20,000 ft³ per day	build a hydrogen-producing plant
12,000-20,000 "	consider dissociating tank-car ammonia
8,000-12,000 "	probably buy trailer-truck hydrogen; possibly dissociate cylinder ammonia
less than 8,000 "	consider dissociating cylinder ammonia

HABER IN REVERSE

REVERSING THE HABER PROCESS to supply hydrogen may look as foolish as burning diamonds to make dry ice, but dissociation of ammonia is actually the cheapest source of hydrogen for the small-scale user.

HAVING been described as early as 1934, the idea of dissociating ammonia to provide hydrogen is not new; but it is only in the past few years that commercial interest in the process—sparked by Armour & Co.'s Ammonia Division—has developed to the point where there's something to talk about.

Most applications have been in the metallurgical field, where an inert atmosphere is required for such operations as bright heat treating, formation of metal powders, furnace brazing, and so forth.

Now, however, chemical uses are coming to the fore—particularly hydrogenation of fats and oils. Armour has developed a process through its pilot plant work, and the patents covering it are being licensed to plant-scale users.

DISSOCIATION PROCESS

The ammonia dissociator consists of an electrically-heated or gas-fired chamber through which the gas is passed. Pressure of the gas is usually a maximum of 20 psig and temperature is normally within the range of 1650 to 1850 F. A catalyst is usually employed to hasten attainment of equilibrium (0.01% residual ammonia) and to provide better heat transfer. Nickel shot is commonly used, as are ceramic balls impregnated with iron oxide. In any case the active catalyst is a metal nitride formed by the reaction of the metal or its oxide with ammonia.

Equipment is being made by several firms, including The Drever Co.; General Electric Co.; Westinghouse Electric Co.; Sargeant and Wilbur, Inc.; C. I. Hayes, Inc.; and Lindberg Engineering Co.

About 1945 Armour started investigating dissociated ammonia for fat and oil hydrogenation, for the process looked economically attractive—especially for small hydrogenators and those whose operations were more or less irregular. Larger processors usually install one of the conventional hydrogen plants.

But a minimum investment of $100-000 for a plant rated at 2,000 ft³/hr is a major cost, especially if operation is sporadic or seasonal. Equipment cost for ammonia dissociation, on the other hand, is only about a fifth of that for other types for the same rated capacity.

In the first pilot-plant tests, dissociated ammonia was introduced into the closed hydrogenation kettle until the reaction rate indicated a nitrogen build-up. The gas was then turned off and time allowed for maximum hydrogen up-take. It was found that this type of operation used up excessive time and excessive hydrogen.

A technique was ultimately worked out which may be described as a continuous vent-constant pressure method. By venting the nitrogen at a rate equivalent to its influent rate, equilibrium is established and hydrogenation proceeds, affected solely by the partial pressure of hydrogen. Consumption of the latter is comparable, using this technique, with hydrogenations using conventional hydrogen sources.

The full-scale plant set-up is practically automatic. Heat contained in the hot dissociated gases is used to vaporize liquid ammonia. The cooled hydrogen-nitrogen mixture is then water-scrubbed to remove traces of ammonia, metered, compressed and piped to storage at 300 psi.

COMPARATIVE COST

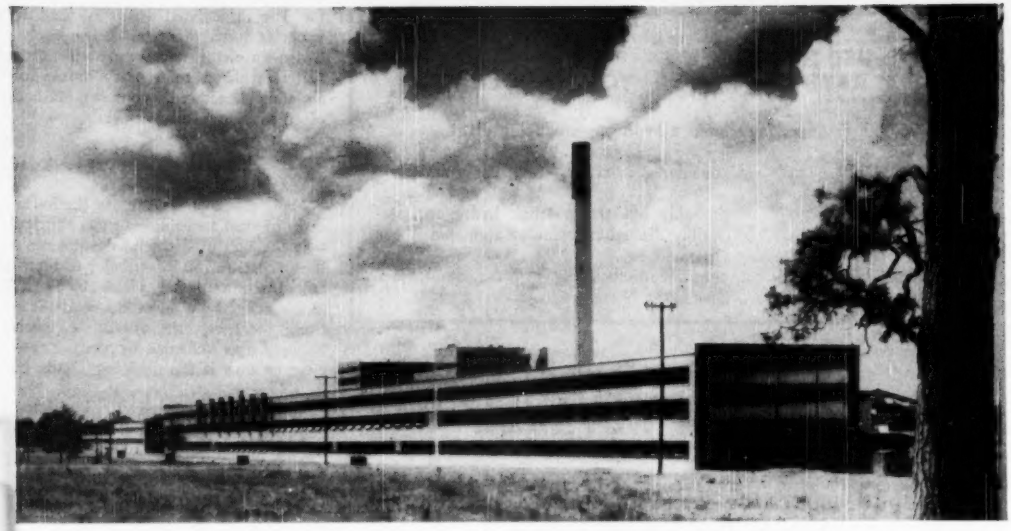
Freight—or one might say the lower ratio of steel to volume of gas shipped—is the nub of dissociated ammonia's lower cost. A 150-lb. cylinder of liquid anhydrous ammonia yields 6,750 ft³ of dissociated gas. For many applications, moreover, the absence of such impurities as moisture, oxygen, or catalyst poisons is the deciding factor in its selection.

The decision between dissociated ammonia and standard hydrogen-producing plants generally boils down to the anticipated daily consumption. If it is over 20,000 ft³/day most consumers would set up a hydrogen-producing plant. At consumptions in the range of 12,000 to 20,000 ft³/day dissociation of tank-car ammonia (a car containing 26 short tons) is the most economical hydrogen source. The 8,000 to 12,000 ft³/day range is the "twilight zone" where it's a toss-up between trailer-truck hydrogen or dissociation of 150-lb. cylinder ammonia, with most bets on the former. Below 8,000 ft³/day dissociation of cylinder ammonia is economically favorable.

Cost of hydrogen in 200 ft³ cylinders varies from as low as $7.50 per M ft³ to as high as $20.00 or $22.00, depending on distance from the cylinder filling plant. Dissociated tank-car ammonia will cost about $2.00 per M ft³, including ammonia, power, labor, catalyst replacement every three years, and amortization (at average rates) of initial investment for process and storage equipment. Dissociated cylinder ammonia, on the other hand, would cost about $4.25 per M ft.³ (These costs are based on an 80 hr/week schedule of operation.)

From these figures it is clear that hydrogen from hydrogen producing plants compares favorably with dissociated ammonia when consumption is over 20,000 ft³/day or in the limited zone of 8,000 to 12,000 ft³/day where it is not practical to install ammonia storage equipment and where trailer-truck hydrogen—which compares favorably in cost with dissociated cylinder ammonia—is available.

Other factors of less direct effect have an important bearing on the cost of dissociated ammonia *vs* hydrogen. One 150-lb. cylinder of ammonia, it should be remembered, produces about 6,800 ft³ of gas—equivalent to 33 cylinders of hydrogen. The savings in handling are thus considerable.



Chemically significant is the fact that International Paper Co.'s new mill uses hardwoods to make . . .

Dissolving Pulps by Sulfate Process

INTERNATIONAL PAPER COMPANY'S NEW NATCHEZ MILL is important for many reasons: It's the first dissolving pulp mill in the South designed to utilize hardwoods by means of the sulfate (kraft) process for its 100,000-ton annual output.

AN INCREASE of 13% of the present estimated North American dissolving pulp capacity will be afforded by International Paper Co.'s new Natchez mill, which recently came into operation.

Natchez was selected as the site because of its proximity to 250,000 acres of company-owned timberland. For the first time in the manufacture of rayon pulps, hardwoods (gums, bay, poplar) instead of softwoods will be largely utilized; and they will be treated by the sulfate instead of the traditional sulfite process used heretofore. Production capacity of the first unit is 300 tons a day, or 100,000 tons a year; two additional units can be added as demand grows. Of dissolving grade, the pulp can be used for rayon, cellophane, or cellulose plastics.

DONE WITH CONVEYORS

Logs of about 5 ft. in length are delivered by truck or rail and unloaded by crane or hand to storage. Cranes pick up the wood from storage and deposit it in a water conveyor, which carries it to the process. An escalator carries the wood from the flume to mechanical conveyors, which bring it to two hydraulic barkers.

The debarked wood is sorted and acceptable logs are chipped and screened. The sized chips go by belt conveyors to tile silos for storage. Thence they go by belt conveyor to the eight carbon-steel digesters, each of which is 13 ft. diam. and 57 ft. long. A shuttle conveyor arrangement permits loading of the various digesters as required by the cycle. After cooking, the charge is blown into a blow tank and thereafter washed.

The washed pulp is screened, thickened, further washed and discharged to storage. From the storage chests the pulp goes to a multi-stage bleach plant with washers between stages. The bleached pulp is screened, again thickened, and further washed, whereupon it is discharged into storage chests that furnish the pulp drying machine.

After passing through a Jordan refiner and a further cleaning step the pulp goes to a Fourdrinier pulp dryer, emerging as a 220-in.-wide sheet resembling blotting paper. The 7-ft.-diam. rolls of dried pulp are cut to required sheet size, the sheets are conveyed to baling presses, and on a subsequent conveyor the bales are weighed, wrapped, tied and sent to storage. Cranes handle the bales for shipment.

LIQUOR, SODA RECOVERY

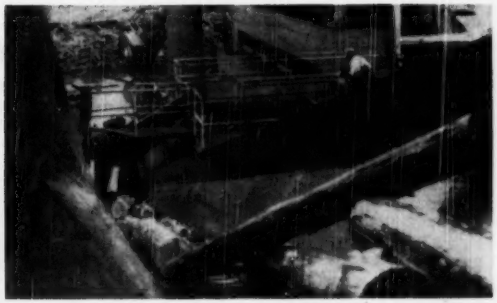
The bark is crushed and conveyed to a bark-burning boiler, while the spent black liquor is evaporated and burned in two soda recovery boilers. The smelt from these units is clarified and causticized to produce sulfate cooking liquor, and the lime mud from the caustic plant is reclaimed by burning.

High-quality water is an essential raw material for a pulp plant, and the system provided at Natchez can soften and filter 30 million gallons a day. Two turbogenerators can supply 13,500 KW, and two boilers can provide 300,000 lb./hr. of 600-lb. steam.

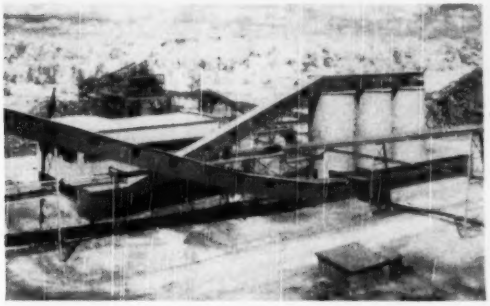
Research leading to the new process was carried out by the company's Southern Kraft Division with the technical assistance of Industrial Cellulose Research, Ltd., a research affiliate of Canadian International Paper Co. Output of the new mill, together with Canadian International's 225,000-ton annual capacity, gives the affiliated companies over a third of North American dissolving pulp capacity.



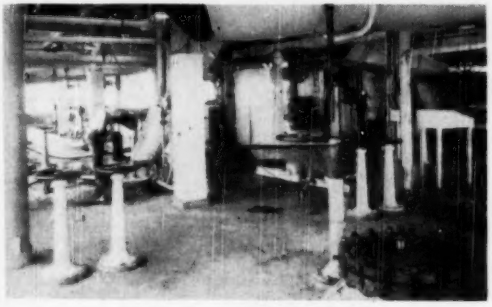
Woodyard superintendent checks logs moving along an escalator conveyor towards the mill's specially designed hydraulic barkers.



The debarked wood is sorted, and acceptable logs are sent up an escalator conveyor to chippers. Chips are screened for proper size.



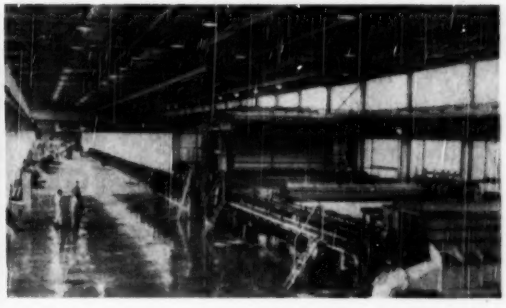
Oversize chips are recycled, and sized chips are carried along a belt conveyor to be stored in tile silos before conversion to pulp.



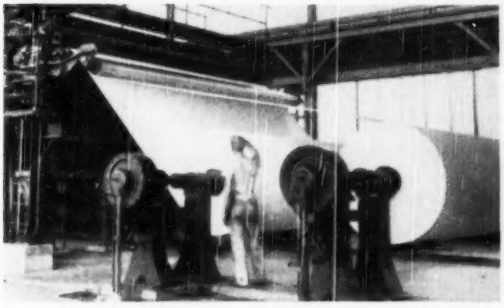
Another belt conveyor carries the chips to carbon-steel digesters, each of which is 13' diam. and 57' long, where chips are pulped.



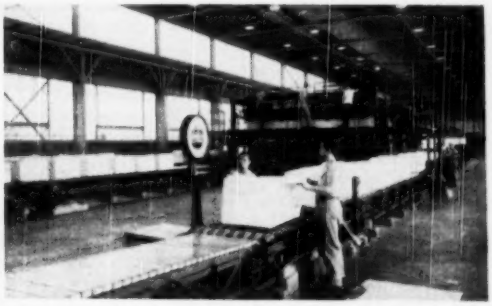
Machine room superintendent checks blending chest, where screened, thickened and bleached pulp is blended to give a uniform product.



Finished pulp goes to wet end of drying machine. Dryer is divided into five parts and is completely covered by a removable 302' hood.

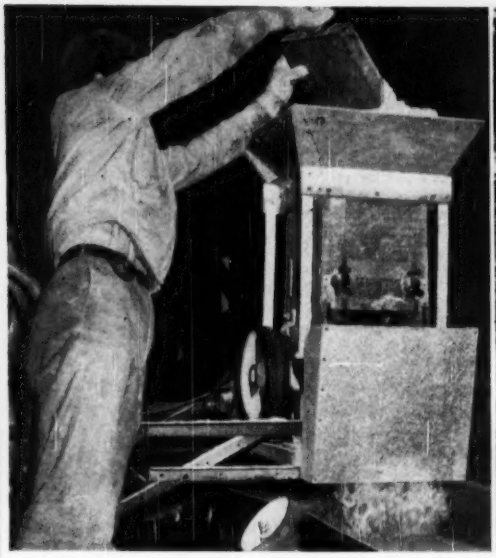


Pulp emerges as a 220" sheet, resembling blotting paper, wound up to form 7' rolls which are cut into sheets of required size.



Sheet pulp is weighed before it is conveyed to baling presses. Bales are wrapped, tied, and sent to storage for subsequent shipment.

CHEMICAL SPECIALTIES



GRAIN PROTECTION during storage achieved with insecticides. Here Pyrenone Wheat Protectant is blended with wheat.



DUSTING POTATOES with CPR dust to control Colorado potato beetle shows widening use of pyrethrum with synergists.

Synergists Widen Scope of "Non-Toxic" Insecticides

by MELVIN GOLDBERG
Pesticide Advisory Service, New York, N. Y.

PIPERONYL BUTOXIDE is principal activator for natural pyrethrum as demand for "safe" products spurs work on extenders for expensive natural insecticides and for allethrin.

SUCCESSFUL INTRODUCTION of the first truly synthetic insecticide, DDT, ushered in a new era in insect control that many thought meant replacement of natural materials such as pyrethrum and rotenone. DDT and some of the other organic insecticides have won a very secure place among both household and agricultural chemicals, but problems of insecticide-resistant insects and toxicity to people and other warm-blooded animals have made it clear that there are definite limitations as to how, where and under what circumstances these synthetic materials can be used.

Instead of being relegated to the "has been" class, pyrethrum is now as highly prized as ever for its particular advantages of non-toxicity to higher animals and quick knockdown of insects. It has always been a relatively expensive material and chemists have tried to make its use more economical by developing chemicals to increase its effectiveness — commonly called synergists, although the terms "activator" and "extender" are also used—and have sought to prepare it synthetically.

There is no acceptable definition for synergists as they apply to insecticides, but a common rule of thumb definition is that a product exhibiting synergistic properties with pyrethrum is one that will synergize pyrethrum over a wide range of different formulations, and one which will be effective against most insects which pyrethrum alone will control. Thus the terms activator and extender generally will apply to materials which may specifically extend or activate pyrethrum in certain instances only.

With current emphasis on "safer" insecticides, synergists are being

widely exploited and new ones are under development. Moreover, commercial availability of a synthetic pyrethrum-like material—allethrin—has brought the need for new synergists.

The exact action of synergists for insecticides is not fully understood. In some cases, a material that is a synergist for pyrethrum may have no such effect on another insecticide. Also, a synergist for pyrethrum against the housefly may have no synergistic action against the cockroach or other insects. Some synergists have insecticidal value themselves, while others have no value as insecticides when used alone.

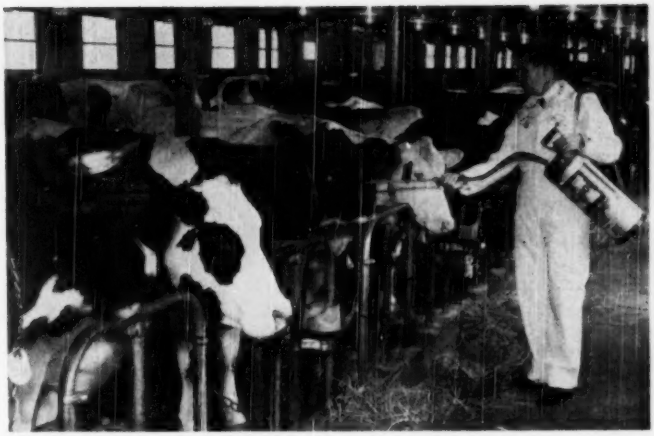
NATURAL PYRETHRUM

In the search for pyrethrum synergists, the chemist is allied with the entomologist who has found this material, or more correctly, pyrethrins—the active ingredient of pyrethrum flowers—a valuable insecticide. It is the leading member of the so-called non-toxic group of insecticides, having been the essential ingredient in household fly sprays for over 25 years, and always having had some agricultural use. We have imported pyrethrum flowers from the British West African colonies of Kenya and Tanganyiki and from Belgian Congo where they have been a major crop since the early 'thirties. Prior to that time, Japan was our major supplier. Small quantities are still grown in the Argentine, Brazil and some Mediterranean countries.

For the most part, pyrethrum has been used in this country in household insecticides, and its popularity reached its height in the middle 'thirties after a degree of standardization was achieved so that both flowers and extracts were sold on the basis of standard chemical analyses.



SAFE AROUND FOODSTUFFS. Pyrenone spray is used to kill cockroaches under sink.



FLY CONTROL in barns and on cows calls for safe, effective insecticides. Pyrenone sprays, combinations of pyrethrum and piperonyl butoxide, fill the bill.

As the cost of pyrethrum rose, use of synethtic substitutes as well as synergists began to occupy many research workers in this field. Rohm & Haas Co. introduced its series of liquid Lethanes (aliphatic thiocyanates) and Hercules Powder marketed its Thanite, a terpene thiocyanate derivative used as a substitute and also in conjunction with natural pyrethrins.

WAR IMPETUS

Early in the last war, pyrethrum became extremely tight because of increased military demands and smaller supplies from Africa. (Normal annual imports into this country had been running between 15 and 16 million pounds of flowers containing 1.3% pyrethrins.) What supplies did come in during the war years were channeled into military uses (chiefly aerosol bombs to combat malaria-bearing mosquitoes) and work on the use of synergists and substitutes was pressed.

One of the first synergists used for pyrethrum was Du Pont's I.N. 930, chemically isobutyl undecylenamide. This synergist is no longer being used in view of more efficient and more economical materials now available.

Haller[1] and his co-workers in the Department of Agriculture, in following up a discovery by Eagleson[2] that addition of sesame oil to pyrethrum extracts increased their effectiveness, separated the various fractions in sesame oil by molecular distillation. These investigators linked the synergistic effect of the sesamin in the oil with the presence of a methylenedioxyphenyl group in the sesamin. This was closely related to piperonal which is 3,4-methylenedioxybenzaldehyde. However, another compound which contains this group is piperine, the alkaloid from black pepper. This material, piperine, showed itself to be a good synergist for pyrethrum, but its value as an insecticide was low.

Because certain amides and other piperonyl compounds were effective synergists for pyrethrum, it was thought worthwhile to investigate compounds possessing both these groups. Twenty-six of these compounds were prepared and tested; some were found to be extremely active as synergists. However, they did not become commercial materials because they couldn't be prepared economically or were of limited solubility in petroleum hydrocarbons and other solvents for insecticidal sprays.

PIPERONYL BUTOXIDE

Meanwhile, O. F. Hedenberg[3] of the Mellon Institute for Industrial Research, who had been searching for a chemical that would not poison man or animals but could be used in making efficient insecticides, had been intensively investigating combinations containing the methylenedioxyphenyl group. The chemicals alone did not appear too promising because of their poor knockdown properties, but when tested in combination with natural pyrethrins, a positive effect was obtained. A number of compounds tested, including safrole and isosafrole and related compounds, displayed little or no activity. One, however, the condensation product of alkyl-3,4-methylenedioxystyryl ketone with ethyl acetoacetate, showed outstanding activity.

A solution of 300 mg. of this sub-

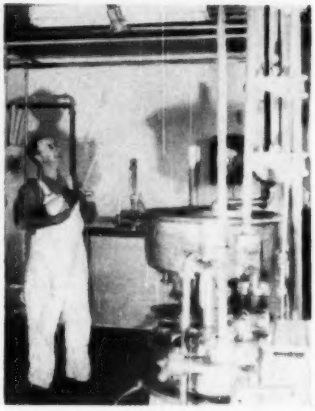
stance in combination with 30 mg. of pyrethrins gave 99% knockdown and 90% kill of houseflies when tested according to recognized test methods. On the other hand, 30 mg. of pyrethrins will give a knockdown of a little better than 80% and a kill of about 15%; 300 mg. of the condensation product dissolved in 100 c.c. of base oil under the test conditions gave a knockdown of less than 10% and, therefore, practically no kill.

Although this was encouraging, the material had to be used with secondary solvents. The search continued, and a material of increased activity and of complete miscibility with Freon (used in aerosol bombs) and petroleum hydrocarbons was developed. This compound, 3,4-methylenedioxy-6-propyl benzyl (butyl) diethylene glycol ether,[4] was called piperonyl butoxide. It shared with pyrethrins the property of being "practically non-toxic" to warm-blooded animals. The commercial preparation contains 80% of the pure product.

Piperonyl butoxide is manufactured by U. S. Industrial Chemicals, Inc., which sells it as a technical chemical as well as in combination with pyrethrum under the trade name Pyrenone, and in combination with pyrethrum and rotenone as CPR concentrates for agricultural uses. The combination of the synergist and natural materials has advantages of stability and economy as well as residual effectiveness which pyrethrum or retenone alone does not possess. Non-toxicity to mammals, ease of formulation and rapidity of action are other factors responsible for their acceptance on truck garden crops, in cattle dips and sprays, household aerosols, for fly control around dairies, etc. Moreover, the use of Pyrenones as emulsifiable concentrates has opened up a new field of activity for pyrethrum, since previously it was only rarely used in this form. Piperonyl butoxide, with its stabilizing effect on pyrethrum, as well as its synergistic activity, has made this economical form of application possible.

The most recent extension of the Pyrenones is their use on stored wheat and other grains and seeds to protect them against insect infestations. Two new products have been developed for this application, but distribution is to be limited this year, with an expansion of availability planned for 1951. This development can be of considerable significance, as the loss of stored grain and seeds in this country often runs as high as a quarter of a billion bushels a year. Obviously, only an absolutely harmless insecticide can be used in this way.

The economy of the Pyrenones can be judged by comparing the current price of 20:1 pyrethrum concentrate, which is about $9 a gallon, with that of an equivalent Pyrenone combination, which is about $4.50 a gallon. Roughly the same concentration of either material will do a given job. Technical piperonyl butoxide is available at about $4.50 a pound.



AEROSOLS of pyrethrum-base Pyrenones kill flying insects in cream separator room.

SESAMIN

Sesamin, which was available prior to the development of piperonyl butoxide, cannot be obtained as the extract (McKesson and Robbins holds the patents on its preparation) since it is sold only in combination with pyrethrins. John Powell & Co., Inc., is the only supplier handling the combination. Sesamin in combination with pyrethrins is of the same order of effectiveness against roaches as is piperonyl butoxide combinations, but it does not have as good knockdown on flies. Since a fairly high concentration of sesamin must be used with pyrethrins to give efficient results, when the cost of pyrethrins is high, sesamin combinations are cheaper than those of pyrethrins and some other synergist. Sesamin combinations are used in sprays as well as in aerosol bombs at the present time.

SYNERGISTS FOR ALLETHRIN

Two other synergists containing the methylenedioxyphenyl group, but prepared from the natural material isosafrole, are n-propyl isome (condensation product of n-propyl malcate with isosafrole) and Sulfox-cide (n-octyl sulfoxide of isosafrole), both products of S. B. Penick & Co. These have been developed at the Boyce Thompson Institute where many pipernyl compounds have been prepared and tested with pyrethrins.

While these materials are particularly valuable in enhancing the toxicity of pyrethrum in housefly sprays, the commercial availability of allethrin, the synthetic homolog of one of the four active principles of natural pyrethrum (*CI, May 1950, p. 716*), has aroused interest in their use with this new insecticide. Published work to date is insufficient to show accurately what effectiveness allethrin may have as compared to the naturally active elements in pyrethrum. However, control of flies and mosquitos by allethrin appears equal or slightly better, but the synthetic alone is inferior for control of roaches and some insects of agricultural importance. From preliminary observations, combinations of synergists with allethrin are not as effective as the combinations of the same synergists with pyrethrum. However, both n-propyl isome and Sulfoxcide increase allethrin's effectiveness against cockroaches, lack of which is a drawback in formulating household sprays and aerosols, and against flies.

It is still rather difficult to determine accurately the activity of allethrin, and consequently the effect of synergists upon it, because methods of analysis and standardization of the commercial material have not yet been completely worked out. Toxicological work to date has been sufficient to warrant U.S.D.A. approval for its use in aerosols, at least to the extent that 20,000 units of selected aerosol formulations will be permitted to be sold to test consumer acceptance of allethrin aerosols. It is permitted in sprays.

Penick sells a combination of allethrin and n-propyl isome under the trade name Allexcel, as well as the technical isome and technical Sulfoxcide alone. Isome combinations are being sold for flysprays but Sulfox-cide has not yet received approval for aerosols. Isome sells for $2.50 a pound, while the other is currently priced at $4.50 a pound. This latter material is about the same price-wise and of the same degree of effectiveness as are the Pyrenones.

Another synergist that has come to the fore with the advent of allethrin is "264", rights to which were recently purchased by McLaughlin, Gormley, King & Co., from Van Dyk & Co. This compound (n-octyl bicycloheptene dicarboxinide) also shows synergistic effect on both pyrethrum and rotenone, but this effect is more pronounced with allethrin, particularly with respect to knockdown and kill of roaches. In combination with allethrin and pyrethrins for roach control, its toxicity is

particularly evident, and it has some insecticidal value alone. Since lack of effectiveness against roaches has been one drawback to the use of allethrin in low-pressure aerosol bombs, there is some promise that 264 will help solve this problem.

The price of 264 at $1.65 per pound is considerably less than that of currently available materials. However, more of this compound than other synergists must be used to achieve comparable results. Despite this difference in quantity required for good effect, the cost differential is such that MGK claims use of this material represents an economy.

FUTURE PROSPECTS

Following the introduction of DDT and similar materials which emphasized residual insect control for the first time, there was a trend to use of just slight amounts of pyrethrins or similar quick knockdown materials in the space spray field. With development of resistant insects, use of pyrethrum-containing space sprays has increased greatly during the last year or two. Restrictions on the use of some synthetic insecticides around dairy barns has also accelerated this trend. There are some entomologists who actually feel that residual fly control is on the way out because of the problems associated with the materials that made it possible. Moreover, the current hearings of the Food and Drug Administration have served somewhat to put a damper on use of residual materials in household products, even though the hearings are concerned solely with the relation of chemicals to protection of crops.

It is reasonable to expect that military action again in the Pacific will increase requirements for natural pyrethrins. Price of pyrethrum flowers is now double the 1941 price and while supplies are greater than they have been for some years, demand far exceeds currently available supply. On the basis of present information, it is improbable that allethrin can be substituted entirely for natural pyrethrins. It is likely that combinations of the natural and the synthetic pyrethrin-like material, together with synergists, may offer a possibility of an immediate solution to the problems of raw materials for non-toxic and quick knockdown action needed against flying insects.

For the long run, development will continue on synergists both to expand further the utility of pyrethrum and to enhance the effectiveness of allethrin. Undoubtedly, synthesis of other pyrethrin-like materials will be accomplished, and they may need currently available and new synergists.

NEW SPECIALTY PRODUCTS

Note: This section limited to new finished specialties. New raw materials and intermediates of interest to specialties manufacturers are described in New Chemical Products department.

Multi-Color Finish (581A)

Marbleized effect is obtained in one coating.

A multi-color finish, which makes it possible to apply two or more colors in a single coat is now being marketed by United Lacquer Manufacturing Corp., 1001 W. Elizabeth Ave., Linden, N. J. The new enamel, called MultaColor, will sell at prices comparable to one-coat enamels. Its evenly-distributed colors produce a broken surface or marbleized effect.

It is available in 16 color combinations, but it may be prepared in an infinite variety of others. Some of the standard combinations are brown and white, green and white, etc.

MultaColor is time-saving and economical, claims United Lacquer, because it eliminates steps from standard finishing operations, such as undercoating, repeated spraying of each color, and sandings to smooth the grain raised by the paint or enamel. A primer coat is necessary only when the new enamel is used on metal.

The new enamel may be applied by the dip or spray technique, and is available in flat, semi-gloss, and gloss. MultaColor in bulk appears as a homogeneous mass of distinct specks of color. When sprayed or applied by the dip process, it appears marbleized.

Anti-Mildew Aerosol (581B)

Fabric and leather protection are provided in product for household and industrial use.

An aerosol preparation of an anti-mildew agent has been developed for household use. The product is being distributed under the trade name Formula J by the J. W. Johnson Co., Bellwood, Ill. Two types are available, one for fabrics, one for leathers. The chemical kills common molds that cause decay and stain and is not considered toxic to human beings. It is effective in preventing mildewing of clothing, leather goods and fabrics stored in damp places or used in humid climates.

Formulations of the new chemical are prepared by Scientific Oil Compounding Co., Inc., of Chicago. Active ingredient in this new liquid compound is Milmer 1, a mold killer manufactured by Monsanto Chemical Co., St. Louis.

Industrial formulations of the chemical, marketed as Cunilates, have been designed to factory-treat a range of products, including canvas, cordage, paper, plastics and surface coatings. The dressing for leathers, such as in shoes and luggage, is the more recent development. This treatment involves the addition of revitalizing oils to prevent brittling.

Metal Stripper (581C)

New stripper dissolves nickel, lead, tin, and chromium from copper base alloys.

Enthone Inc., 442 Elm St., New Haven, Conn. has developed a new product for rapid stripping of nickel, tin, lead and chromium from copper, brass and other copper alloys without attack upon the base metal. The process involves no current. The work to be stripped is immersed in an acid solution containing Metal Stripper N-165 and rapid removal of nickel and the other metals mentioned is accomplished. Stripping rates as high as 0.006″ per hour of nickel have been obtained, according to Enthone. The process is stated to be ideal for removal of nickel from bulk plated work as well as heavier plated objects, such as percolators, flashlights, plumbing goods and other items made of copper. It is also held suitable for rapid removal of nickel and chromium from tips of plating racks, thus reducing overall maintenance costs on plating racks.

The process is easy to use. One pound of Enthone Metal Stripper N-165 is added to each gallon of acid solution. Stripping can be done at room temperature or at higher temperatures if faster stripping is desired. The process is not suitable for removal of nickle from steel or zinc base alloys.

Enthone Metal Stripper N-165 is supplied as a neutral powder safe to handle and easy to use. Prices are from $1.50 per lb. in 5 lb. lots, to 85¢ per lb. for tons in 300 lb. drums, F.O.B. New Haven, Conn.

Multiwall Bag Adhesive (581D)

Ready-to-use seam adhesive machines cleanly, tacks quickly.

Poly-Lok, a new adhesive for fabricating multiwall and specialty bags from polyethylene-coated kraft stocks, has resulted in successful packaging for many products once bothersome or even impossible to handle, according to National Adhesives, 270 Madison Ave., New York 16.

Poly-Lok is a ready-to-use, cold resin seam adhesive that combines high solids with low viscosity. It machines cleanly on direct roller application, tacks immediately even at the rate of one hundred 10-pound

bags per minute, and dries to a transparent, light gray film unaffected by variations of temperatures or humidity, claims National. There is no air-blistering with age.

Poly-Lok adhesive seams are said to withstand hot calcium oxide at 250° F., food locker temperatures down to —20° F., and to protect food flavors, and keep hygroscopic products from coalescing. It is said to be non-flashing, practically odorless, and contains no fast-evaporating solvents; users find it is easily cleaned from glue pots with kerosene, toluene or naphtha.

Boiler Compound (582A)

Treatment eliminates foaming and boiler water carryover.

A new product, Concentrol, a treatment to eliminate foaming and boiler water carryover due to high alkalinity, dissolved solids, suspended solids or a combination of these factors, was recently developed by the Bird-Archer Co., 400 Madison Ave., New York 17.

Concentrol, which is essentially a surface active agent of the polyalkylene glycol group, functions by effecting a rapid change in surface tension of steam bubbles, thus permitting coalescence of small steam bubbles into bubbles of large size. The result is that unstable bubble films form and break readily upon reaching the steam disengaging surface of the boiler water, so as to eliminate building up of foam and subsequent boiler water carry-over, according to Bird-Archer. Concentrol is available in various formulations, depending on intended use. It may be safely fed through feedlines.

The amount of the product required to eliminate foam depends on nature of the feedwater and boiler concentrations. The company states that foaming has been eliminated in plants which have to carry as high as 12,000 ppm of dissolved solids and 7000 ppm of alkalinity.

Poultry Stimulant (582B)

Choline chloride solution has vitamin-like action.

Monsanto Chemical Co.'s Merrimac Division, Everett, Mass., is producing an improved, inhibited chemical for stimulating poultry growth. The 70% choline chloride solution contains an inhibitor to combat corrosion. A marked decrease in the corrosive action of choline chloride has been noted following addition of the inhibitor, Monsanto said.

While not classified as a vitamin, the new product has many of the properties of vitamins in preventing disease and accelerating growth. In tests the product has prevented perosis, improved feed efficiency in many rations and increased the rate of growth, depending upon formulas used, according to the company.

Inhibited choline chloride will be manufactured by Monsanto for distribution in tank car and drum lots.

Polystyrene Bond (582C)

Solvent combination bonds fast, has attractive storage features.

Rez-n-bond, a solvent combination which was originally developed for bonding acrylics, has now been modified for use in joining polystyrene to polystyrene.

The solvent combination is nonflammable, contains no acids, and may be safely handled with no precautions other than adequate ventilation. Shipment and storage is in ordinary tin cans and untreated steel drums. No thickening or deterioration results from prolonged storage, and an unlimited quantity may be stored without risk of fire, claims the manufacturer, Schwartz Chemical Co., Inc., 326 W. 70th St., New York 23.

Plastic objects cemented with Rez-n-bond set almost instantly. Jigs are necessary only in clamping poorly fitting seams or large sections, according to the company, and handling, buffing and other finishing operations may be carried out within an hour. Cemented joints in clear polystyrene and acrylics are claimed to be optically clear and free from bubbles. The resulting joint is as strong as the plastic itself and may not be separated without fracturing the surrounding plastic areas.

Paint Additive (582D)

Packaged additive makes paints mildew resistant.

Ad-It is the name of the packaged mildew inhibitor for paints which Nuodex Products Co., Inc., Elizabeth, N. J., has introduced to the paint trade. It is sold in one ounce and five ounce bottles, each individually packed. One ounce is sufficient for one gallon of paint; five, for a five gallon can. Nuodex imprints the name of the paint manufacturer on each bottle, since the product is being sold only through paint manufacturers for addition to paints on the job.

Nylon Emulsion (582E)

Treatment of nylon with nylon emulsion gives fabric silky feel.

An emulsion of Type 8 nylon and a method of applying it to textile nylon fiber to make it more comfortable has been developed by Hans C. Bick, Inc., manufacturing chemist and commercial fabric finisher. The finishing method, called "Nylonizing", makes the fabric moisture-absorbent, although it still dries as quickly as untreated nylon. Stockings, the only wearing apparel on which the new process has been tried so far, feel like silk after treatment. Public reception of the new stockings has been good, and the treatment may be used on other nylon articles of wear.

Case Hardener (582F)

New case hardening compound is fast-acting on both steel and cast iron.

Hard 'N 'Tuff is the trade name of a new fast-acting case hardening compound that is said to be effective on both steel and cast iron. Developed by Doughty Laboratories, 299 Madison Ave., New York 17, N. Y., it provides both a nitriding, chromizing and carburizing effect when applied to metal surfaces that are heated properly. Improvement in structural quality, hardness and wear resistance of metals is claimed. Doughty says that a soft 1020 carbon steel can be raised to a hardness of about 60 Rockwell C or about 600 Brinell.

Suggested applications are to high-speed drills, cutting edges and wearing surfaces of dies, molds, hammers, cams, etc.

Sealing Compound (582G)

Sealer for threaded joints and gaskets resists wide range of chemicals.

The plastic base of Leak Lock, as a new sealing compound introduced by the Highside Chemicals Co., 10 Colfax Ave., Clifton, N. J., is known, forms an elastic, rubbery film that resists a wide range of chemicals and solvents. Designed for threaded joints and gasket surfaces, it is claimed to set up three times faster than other products that do not become hard, thereby preventing liquids and gases from pushing through the seal before it has set up. Electrical properties of the new compound are such that it can be used as a sealer and insulator.

Leak Lock is available in nonclogging tubes and in cans.

Packaging Adhesives (582H)

Water-resistant adhesives meet military packaging specifications.

A new line of water-resistant adhesives has been developed by Paisley Products, Inc., 1776 Canalport Ave., Chicago 16, Ill., to meet joint U. S. Army and Navy packaging specifications for export packaging.

Four adhesives meet the requirements of JAN-P-101 specification covering sealing solid fibre V-board

(*Turn to page 606*)

HIGHLY REACTIVE PHOSPHORUS CHLORIDES

another group of VERSATILE VICTOR CHEMICALS

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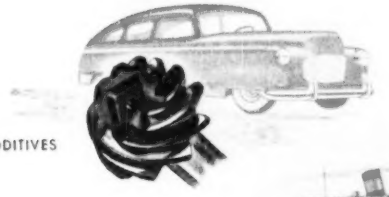
- ⟶ PLASTICIZERS
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$PCl_5 + RCOOH \longrightarrow RCOCl + POCl_3 + HCl$
$POCl_3 + 3{=}COH \longrightarrow 3{=}CCl + H_3PO_4$
$POCl_3 + 3ROH \longrightarrow (RO)_3PO + 3HCl$
$PSCl_3 + 3ROH \longrightarrow (RO)_3PS + 3HCl$
$PCl_3 + 3ROH \longrightarrow (RO)_2POH + RCl$
$C_6H_5PCl_2 + 2ROH \longrightarrow C_6H_5P(OR)_2 + 2HCl$
$C_6H_5POCl_2 + 2ROH \longrightarrow C_6H_5PO(OR)_2 + 2HCl$
$C_6H_5PSCl_2 + 2ROH \longrightarrow C_6H_5PS(OR)_2 + 2HCl$



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OIL ADDITIVES



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THE CHEMICAL PANORAMA

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PEOPLE



E. M. MAXWELL, elected president, National Aniline Div., Allied Chemical and Dye Corp.



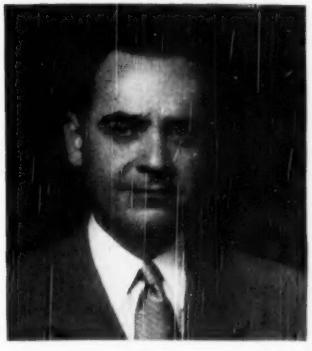
D. G. ROGERS, appointed executive vice president of the National Aniline Division.



G. L. ROYER, Calco, who has received the Olney Award Medal, presented for outstanding achievement in the field of textile chemistry.



GORDON KIDDOO, named director of research and development of the Continental Carbon Co. He previously was with the Texas Co. working on pilot plants for the synthesis of fuels.



C. P. WALKER, named chairman, Drug, Chemical & Allied Trades, N. Y. Board of Trade.



H. ALVIN SMITH, elected president of John Powell & Co. He was executive vice president.



R. L. FRANK, recently appointed director of research for the Edwal Laboratories, Inc.



LOOKING NORTH in the pilot plant. The mushroom pillars are typical of the Frank Lloyd Wright architecture used by S. C. Johnson.

WAX PILOT PLANT

New pilot plant together with "research tower" gives S. C. Johnson & Son up-to-date wax development facilities.

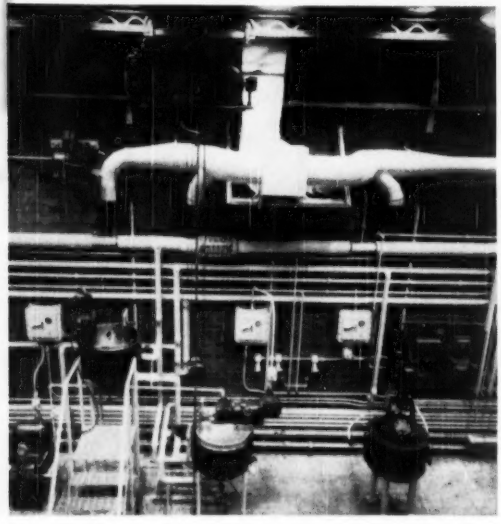
A NEW pilot plant for the Experimental Engineering Department of the Research and Development Division, S. C. Johnson and Son, is now open for business. Modern equipment has been installed and arranged for equipment operation.

Piping for power and utilities is installed compactly along the west wall of the plant where the equipment is located. There are 16 separate electrical conduits and pipes for steam, natural gas, water, and a vacuum line.

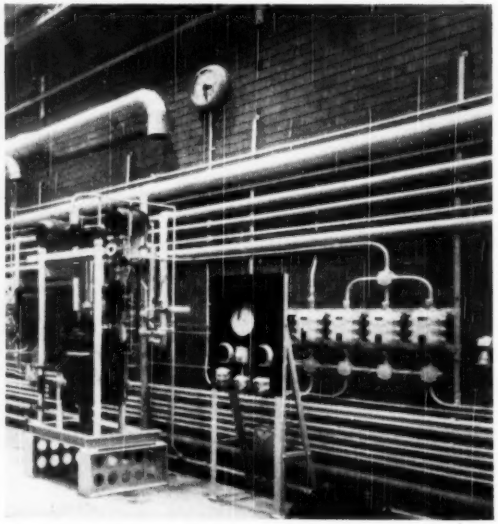
Overhead is a one-ton hoist which can be moved along tracks on the ceiling along the length of the building. The lift mechanism is electrically powered and operated by push button.

Other equipment includes a Blaw Knox resin pilot plant with a capacity of 15 gallons. There is also a stainless-steel 40 gal. mixing kettle.

A concrete draining channel 18 inches wide runs through the center of the floor. Waste liquids can be drained into this and rapidly run out of the building.



EXHAUST FAN near the roof will be fitted with flexible piping. Exhaust intakes can then be moved over equipment to draw out fumes.

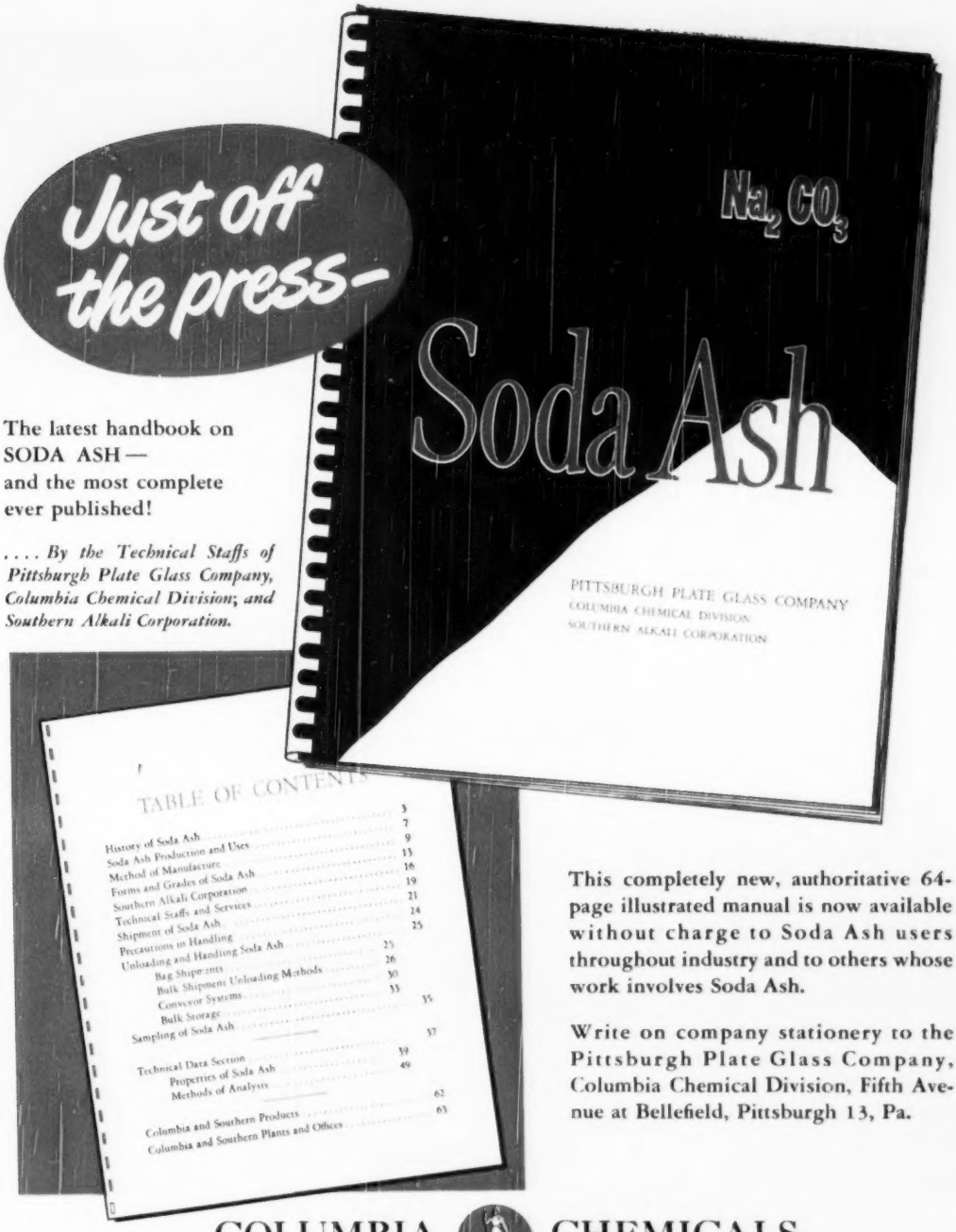


EQUIPMENT at the plant is arranged for convenient operation. Construction on the building was started two and one half years ago.

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. . . . By the Technical Staffs of Pittsburgh Plate Glass Company, Columbia Chemical Division; and Southern Alkali Corporation.



This completely new, authoritative 64-page illustrated manual is now available without charge to Soda Ash users throughout industry and to others whose work involves Soda Ash.

Write on company stationery to the Pittsburgh Plate Glass Company, Columbia Chemical Division, Fifth Avenue at Bellefield, Pittsburgh 13, Pa.

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PITTSBURGH PLATE GLASS COMPANY

CONTAINER COATINGS

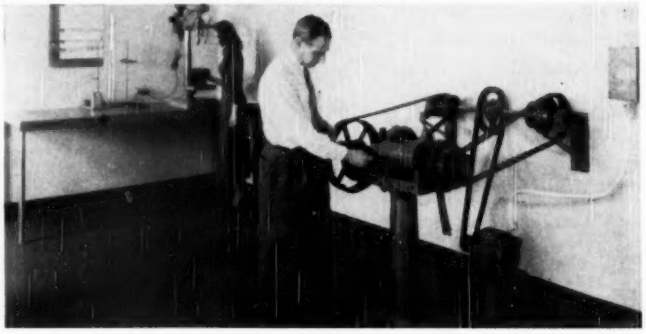
New laboratory develops and tests protective coatings for collapsible tubes and tinplate containers.

NEW research and development labs and a complete manufacturing plant have been put into operation by Surface Chemicals, Inc., at McKees Rocks, Pa. Surface chemicals specializes in the development and manufacture of protective coatings for collapsible tubes and tinplate containers for packaged creams, pastes, solvent liquids and other materials. The new unit has been established to better coordinate research and development activities with the actual manufacturing of protective coatings.

Pilot-plant equipment which duplicates the operations in a modern lithographic plant has been installed in the coatings laboratory. The facilities—which include coating machines, ovens, punch presses, and closure threaders—will permit coating tests under simulated production conditions. Other facilities in addition to the production plant include a physical testing lab, a chemical lab, machine shop and offices.



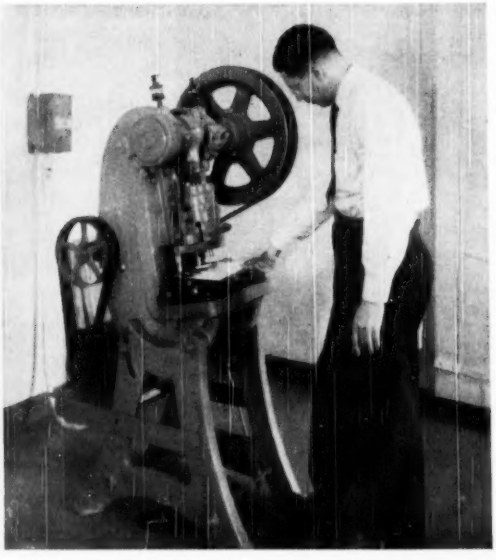
COATING is applied to tinplate to test its workability at Surface Chemcals' new lab.



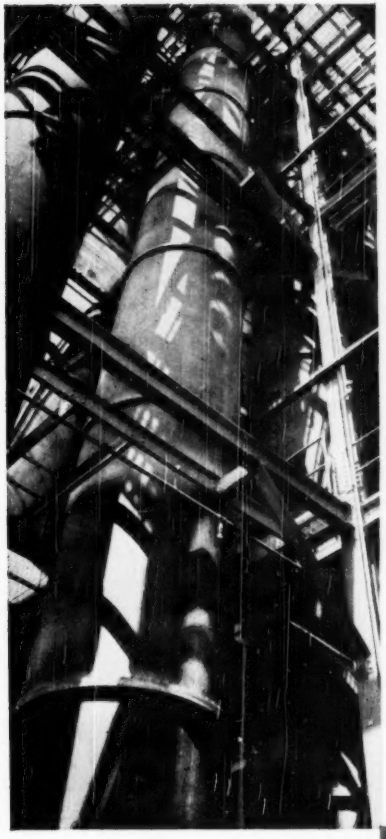
CLOSURES made from coated tinplate are threaded to test flexibility of a coating.



TEST BATCHES and pigments and resins are dispersed and ground.



RUN OF SCREW-CAP blanks is fabricated on the punch-press.



aliphatic

ACIDS AND ANHYDRIDES

Acetic Acid
Acetic Anhydride
n-Butyric Acid
Crotonic Acid
Beta Oxy Naphthoic Acid

ALCOHOLS

n-Butyl Alcohol
2-Ethylbutyl Alcohol
2-Ethylhexyl Alcohol

ALDEHYDES

Acetaldehyde
n-Butyraldehyde
Crotonaldehyde
Isobutyraldehyde

PLASTICIZERS

Dibutyl Phthalate
Diethyl Phthalate
Di-(2-Ethylbutyl) Phthalate
Di-(2-Ethylhexyl) Phthalate
Di-(Methoxyethyl) Phthalate
Dimethyl Phthalate
Triacetin
Tributyrin

aromatic

AMINES

2, 5-Diethoxy Aniline
2, 5-Dimethoxy Aniline
Phenyl Diethanolamine
Phenyl Ethyl Ethanolamine
m-Tolyl Diethanolamine
o-Tolyl Propanolamine

AMINOPHENOLS

m-Aminophenol
p-Aminophenol
Tenamene 1

PHENOLS

1, 5-Dihydroxy Naphthalene
2, 5-Di-tert-Butyl Hydroquinone
Quinizarin
Tecquinol
Toluhydroquinone

PHENOL ETHERS

Hydroquinone Diethyl Ether
Hydroquinone Dimethyl Ether
Hydroquinone Di-n-Butyl Ether
Hydroquinone Mono Methyl Ether

MISCELLANEOUS

Acetanilide
p-Benzoquinone
2, 5-Di-tert-Butyl Quinone
Tenamene 2

EASTMAN INDUSTRIAL CHEMICALS

SOLVENTS

Acetone
n-Butyl Acetate
Ethyl Acetate
Isopropyl Acetate

MISCELLANEOUS

Isopropenyl Acetate
Triethyl Phosphate

cellulose products

Cellulose Acetate
Cellulose Acetate Butyrate
Oxidized Cellulose

inorganic

Iron Oxide
Tecmangam 65%
Zinc Thiocyanate

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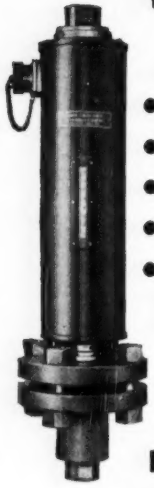
Specifications, properties and typical uses of these chemicals are contained in the 1950 Eastman Industrial Chemicals catalog. Write for your copy.

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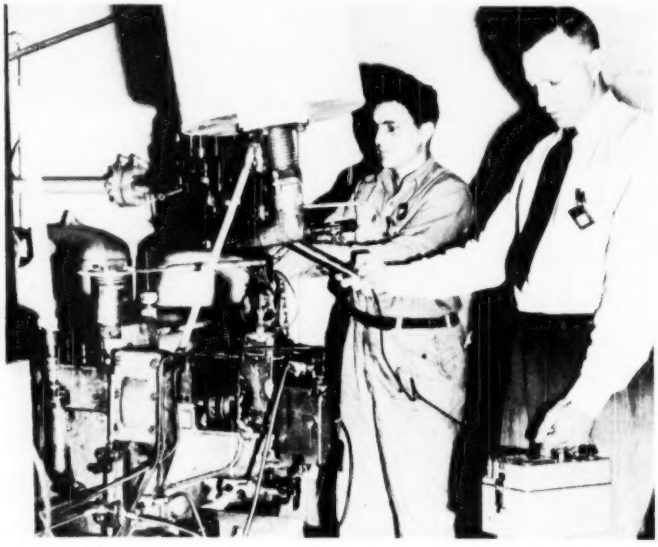


SECTION of the chemical exposition, held at the Chicago Coliseum this September.

MANY SEE CHEM SHOW

THE 6th National Chemical Exposition held in Chicago this September attracted almost 25,000 visitors. About 140 companies—including several foreign firms—displayed the newest chemicals and chemical processing equipment.

The exposition is sponsored by the Chicago section of the American Chemical Society, and was held in conjunction with the 118th meeting of the ACS.



RADIATION from an engine part is checked with a Geiger counter at Atlantic Refining's labs.

ATOMS MEASURE WEAR

THE ATLANTIC Refining Co. has developed a method for using atomic energy in measuring the effect of different motor oils on the wear of automotive engines. In a short period of engine operation, the exact amount of radioactive iron particles which have been worn from an engine can be accurately determined, and the extent of damage calculated. This is done by measuring the radioactivity of the used oil which contains these particles. It is believed that the speed and accuracy of this test opens the door to great progress in motor oil research and development.

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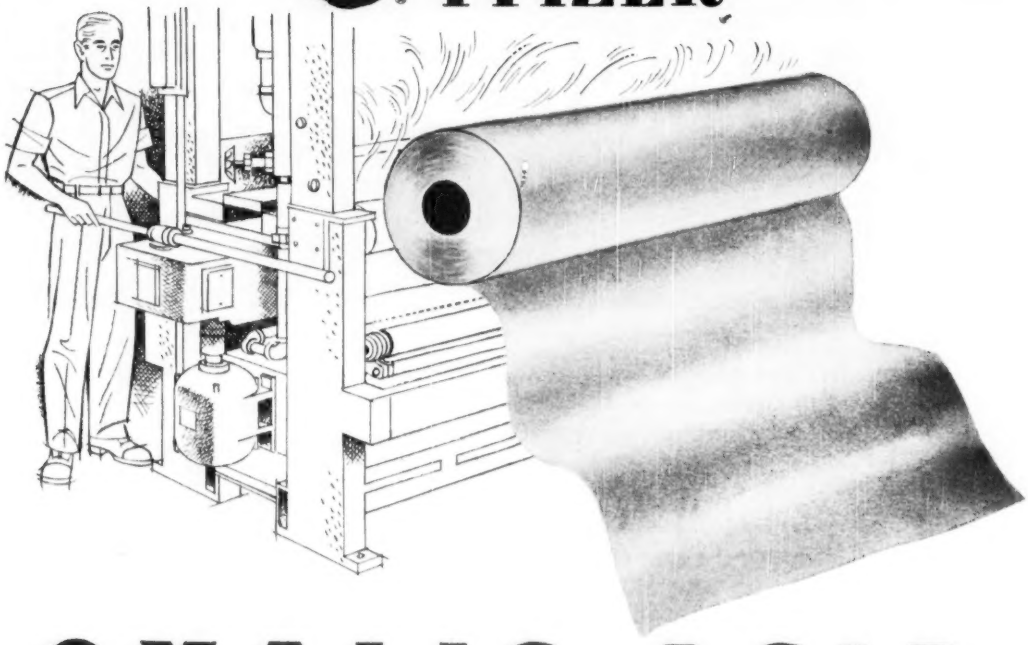


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SPECIALTIES NEWS

ASTM Organizes Committee On Wax Polishes

A new technical committee called Committee D-21 on Wax Polishes and Related Materials has been organized by the American Society for Testing Materials. Its function will be to develop standard test methods and definitions of terms and to promulgate standard specifications for these materials.

Initially the committee will concentrate its work on standardizing test methods and procedures for evaluating various properties of the materials and also study nomenclature and definitions of terms. Water-emulsion type waxes will probably receive first consideration in the development of test methods. Automobile, furniture and other type waxes will be included later in the work.

The committee will have competent technical representation from leading consumers, producers and general interest groups.

Urges Filing Briefs for Residue Hearings

The importance of filing industry briefs as a contribution to the establishment of sound residue tolerances for agricultural chemicals used on fresh fruits and vegetables was stressed last month at the seventeenth annual meeting of the National Agricultural Chemicals Association by John D. Conner, NAC counsel. Proposed tolerances may be announced by the administrator of the residue tolerance hearings in time to guide state officials in making their 1951 recommendations.

Mr. Conner pointed out that the administrator has wide discretion in setting proposed tolerances, and that it is industry's job to assist him through briefs in arriving at regulations that will permit prudent use of the industry's products without undue restriction upon the farmer and with complete assurance of safety to the consumer.

Lab Tests Upheld for Laundry Detergents

Use conditions need not be simulated in conducting laboratory performance tests for laundry detergents, as is popularly believed, according to T. H. Vaughn and H. R. Suter of Wyandotte Chemicals Corp. They state that close simulation is neither practicable nor necessary in such investigations, for laboratory results have so closely correlated with field results in commercial laundries that attempted simulation has been disregarded in favor of more important factors.

Both experimental investigator and detergent manufacturer find separate tests measuring soil removal and whiteness retention properties most useful. Soiling artificially with carbon black from an aqueous medium is advantageous with respect to reproducibility in tenacity and in variation and susceptibility to removal by detergents having different degrees of effectiveness. Several years research show the precision of soil removal tests to be approximately ±3.4% in terms of mean deviation and the whiteness retention tests to be approximately ±5.1%.

N.Y.C. Revises Flammable Labeling Requirements

Manufacturers offering for sale in New York City products that require a caution statement because of the flammable nature of their composition should be aware of the revised caution statement regulation of the city's fire department. The caution statement must be of the same size and not smaller than the largest type used on the label except that of the name of the product. The fire department is now actively enforcing compliance with the strict letter of this regulation, and thus far has refused to modify the regulation as requested by manufacturers who claim that it forces expensive revision of present labels, recall of products from retail outlets, typographical oddities and deletion of necessary directions, and is in conflict with other statutory requirements.

Du Pont Expands BHC Capacity

Work is now in progress by the Du Pont Co. on a large increase in its capacity for benzene hexachloride, the insecticide used in cotton pest control. Previously the company's BHC capacity had been raised by more than 9 million pounds per year over design capacity of its plant when it went into operation early in 1949. This earlier increase was made possible by engineering changes and improvements in processing techniques.

Du Pont sells its production under the trade name Lexone in bulk to dust mixers, and in Du Pont Cotton Dust No. 10, which also contains DDT and sulfur.



Sherman W. Putnam (left), named Midwest general sales manager for the Ultra Chemical Works, Inc.; and William M. Shine, who has joined the Plastics Department of Arnold, Hoffman and Co., Inc. Mr. Shine was formerly associated with General Aniline and Film Corp.

"What's New" Memo

Are anti-fogging agents in your line? Do you grind any of your raw materials? Compound detergents, use thickening agents? Make textile specialties? Ice-repellent coatings? Have difficulty in picking proper emulsifiers?

You'll want to read about new developments in the following articles in this issue:

"Visible Success," p. 553.
"Freeze-Grinding," p. 554.
"Now Look at Three," p. 555.
"Nylon Insurance," p. 556.
"Icephobia," p. 559.
"HLB Progress," p. 561.

New Fertilizer Planned by International Minerals

International Minerals & Chemicals Corp. has completed negotiations for purchase of a site in Fort Worth, Tex. from Consolidated Chemical Industries, Inc., and will build a new chemical fertilizer plant. Consisting of about thirty acres, the site is adjacent to the plant of Consolidated Chemical, which will be the source of sulfuric acid used in International's superphosphate manufactured at that location.

The plant will have a capacity of 40,000 tons per year, will cost about $5 million. Products in addition to superphosphate, will include mixed fertilizers. Construction is expected to start soon.

New Paint Co. Formed

Dudley B. Blake, former general sales manager of United Lacquer Manufacturing Corp., has formed Blake Paint Corp. Offices are at 103 East 125th St., New York, N. Y.

Mr. Blake plans to render "personalized service" to manufacturers using industrial finishes. The new



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company will also sell a full line of house paints under the trade name Blake on a national basis to distributors and dealers.

Corrosion Data Given on Soap Plant Equipment

Operators of soap and fatty acid plants will be interested in a summary of results of corrosion tests of operating equipment used in such production. These data were contained in a paper presented by J. F. Mason, Jr. and Wayne Z. Friend before the Fifth Annual Conference of the National Association of Corrosion Engineers and printed in booklet form by The International Nickel Co., Inc., 67 Wall St., New York 5, N. Y., from which it may be obtained without charge.

Tests in the boiled soap process and glycerin recovery include those in soap kettles, caustic storage, brine tanks, acid and alkali treatment and filtering of soap lye, salt-glycerine slurry, salt-glycerine evaporators and glycerine stills, glycerine bleaching and storage.

Tests in fatty acid processing include those in Twitchell and high temperature water splitting of fats, acid washing of fats and fatty acids, deodorization, heating and distillation of animal and vegetable fatty acids including tall oil, fatty acid storage.

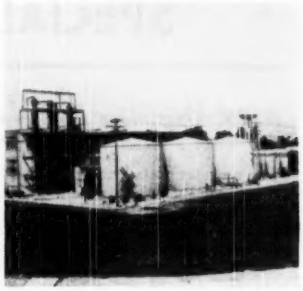
Pest Control Convention

The National Pest Control Association, Inc., which is holding its eighteenth annual convention at the Netherland Plaza Hotel, Cincinnati, October 23-25, 1950, has completed the program for the meeting. In addition to meetings of various technical and business committees, there will be papers on lindane, new developments and techniques in rodent control, fly control in 1950, the safe use of insecticides, the Food and Drug Administration's relationship with the pest control operator and the food manufacturer, and mothproofing problems.

SKF Adds Million-Dollar Wing

A new $1.2 million-wing will be added to the present Philadelphia building of Smith, Kline & French Laboratories. Scheduled for completion late next spring, it will consist of four floors and a basement to be used for office and warehouse space.

In addition to this planned construction, a $150,000 expansion of research laboratory facilities in SKF's present building has just been completed.



Trichlorethylene plant at Ashtabula, O. just completed by Hooker-Detrex Inc. Its production will be used in manufacture of metal degreasing solvents for the Detrex Corp., Detroit.

Abbott Labs Building Laboratory Addition

Abbott Laboratories has started construction on a $283,000 addition to the Development Laboratory building at its North Chicago plant. It is expected to be ready for occupancy early next year, and will more than double size of the existing one-story building.

Included in the project is a section housing three stories of development laboratories for chemical engineering, antibiotics and biochemistry, a conference room and offices. The east half of this section, divided into two stories, will be devoted to a large operations area where heavy equipment used in developing manufacturing processes will be located.

A partial second floor addition above the present building will accommodate still other laboratory and conference facilities.

Solvents in Nitrocellulose Formulations

Celanese Corp. of America has just published a revised Bulletin E-1-2, which contains details on performance studies of its Solvents 203 and 601 in nitrocellulose formulations. These tests show that these solvents in both lacquer and thinner make possible use of higher solids, without sacrifice of blush resistance, drying time, or other properties and with a substantial saving in solvent costs, the company reports.

Caution Urged in Use Of Newer Insecticides

Extreme caution in using newer insecticides containing HETP, TEPP and parathion has been advised by a group of private and governmental physicians and research men who are members of or consul-

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Ortho Xylene 90%

Available in drums and tank cars. (Specified purity, 88% minimum.) A raw material for the production of phthalic anhydride, aromatic aldehydes and acids, xylenols, resins and intermediates for polyesters and polyamides, dyestuffs, lacquers, plasticizers, etc.

Para Xylene 95%

Available in drums and tank cars. (Specified purity, 95% minimum.) A desirable raw material for producing terephthalic acid, 2, 5-xylenol, *p*-toluic acid, and intermediates for polyesters, polyamides, alkyd resins, dyes, insecticides, pharmaceuticals and many other products.

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THE NAME TO WATCH IN CHEMICALS

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600 S. MICHIGAN AVENUE, CHICAGO 5, ILL.
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tants to the American Medical Association's Committee on Pesticides. These materials are used principally for control of aphids, mites and other fruit and vegetable crop insects, and not for insects attacking man or animals or for insects in households and storage rooms.

Although authenticated cases of poisoning reported total 198 to date, it was pointed out by U. S. Department of Agriculture representatives that it is quite unlikely that a parathion spray residue problem will become serious if spray schedules recommended by qualified entomologists are followed. This is particularly significant since parathion, of the three chemicals mentioned, has the greatest stability in water and greatest solubility in fatty mediums, including the outer layer of fruit and leaves.

The following measures to reduce exposure and minimize absorption of the insecticides were recommended in a recent Journal of the American Medical Association:

1. Clean protective clothing is required.

2. Workmen engaged in manufacture or packaging of the chemicals should have adequate exhaust ventilation. People applying aerosols of the chemicals, including pilots, should wear face masks. Wind dispersal should be avoided to unprotected people or animals.

3. Personnel should remove protective clothing and wash hands, arms and face thoroughly with soap and water before eating, drinking or smoking.

4. Flammable insecticide containers should be burned and any area in which insecticides are spilled should be decontaminated by cleaning and washing. Waste should be burned or buried.

5. A periodic blood test helps to prevent cumulative effects in exposed personnel by indicating those who should be removed from exposure.

This report in the AMA journal is in line with the program of the Committee on Pesticides to interpret studies made on the toxicity of agricultural chemicals, and publish them in the society's publications at periodic intervals.



Aldrin Accepted for Grasshopper Control

The U. S. Department of Agriculture has accepted aldrin for control of grasshoppers subject to the following understandings and limitations:

1. Dosages of 2 oz. of aldrin per acre in the emulsifiable form and 3 oz. per acre in the dust form will be accepted.

2. For control of grasshoppers on fiber crops such as flax and cotton; on cereal crops such as wheat and barley; on forage crops such as clover and alfalfa and on range and waste lands.

3. Aldrin formulations should not be applied on pastures, range lands or crops that are to be used to pasture or feed dairy animals or animals being fattened for slaughter.

4. Pasture or crops treated with aldrin insecticides should not be fed to animals until 21 days following application.

5. Aldrin insecticides should not be applied to crops intended for human consumption.

Rohm & Haas Buys Experimental Farm

Rohm & Haas has purchased a 211-acre farm in Bucks County, Pa., for extension of its experimental field research on agricultural chemicals. Parts of the farm, located about nine miles from the company's Bristol plant, have been in possession of the company since 1928, and it has been used as a proving ground for agricultural insecticides and fungicides since the early 'thirties.

A factor in selecting this particular farm was the suitability of the



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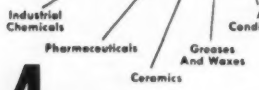
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LITHIUM AMIDE—Lump, powder. Uses: Stable amide for organic reactions.

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- CARBONATE
- CHLORIDE
- COBALTITE
- FLUORIDE
- HYDROXIDE
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soil to fruit trees as well as to vegetable crops, since some of the company's principal development is concerned with insecticides for fruit pest control.

Brazilian Farmers Want U. S. Insecticides

Brazilian manufacturers of insecticides and fertilizers cannot compete with foreign producers either in quantity, quality or price and continued import restrictions covering these items will severely damage Brazilian agricultural production. This was the statement of Francisco Malta Cardoso, president of the Brazilian Rural Society (Sociedade Rural Brasileira) after complaining to the Export-Import Department of the Banco de Brasil against its severe policies.

Company Notes

• **Laboratory and research facilities** of Arner Co., Buffalo, N. Y., are being expanded 50 per cent to keep pace with increased business. A third floor is also being added to the existing two-story building at its Fort Erie, Ont., plant.

• **Executive offices** of Sterling Drug, Inc., have been moved to 1450 Broadway, New York, where its New York operations will now be consolidated. Previously the offices were at 170 Varick St.

• **A contract** of undisclosed amount for a fertilizer plant and office building to be built in central New York State has been awarded by F. S. Royster Guano Co., Norfolk, Va., to McCloskey Co., Pittsburgh.

• **Sales in Canada** of Rohm & Haas pectic enzymes for clarifying fruit juices and wines will now be handled through its Canadian affiliate, Rohm & Haas Co. of Canada, Ltd.

• **Work on Lever House,** new 21-story headquarters of Lever Brothers Co. at 390 Park Ave., New York, N. Y., will begin immediately. The company has just awarded the construction contract to George A. Fuller Co., New York City.

• **Hercules Powder Co.** reports that a new finishing technique, the hot-lacquer process, is attracting widespread interest in the finishes field not only because of the economies it offers to the finishing industry but also because it offers that industry a means of by-passing the shortage of volatile ingredients. In this process, heat instead of volatile solvents, makes the lacquer thin enough to spray.

NEW TRADEMARKS

From Official Gazette—Vol. 635, No. 1.

G-11. Substance having the chemical formula, 2,2'-dihydroxy-3,5,6-3',5',6'-hexachloro diphenyl methane and being suitable as active ingredient in bactericidal preparations, such as soap, shaving cream, ointments, and the like. 550,749. Sindar Corp.

VIDEO-WHITE. Bleaching and washing solution having disinfectant and deodorizing properties. 567,244. Felice Products Co.

HENGAR. Chemical boiling solutions to prevent bumping, being used as laboratory reagents. 567,784. Hengar Co.

(Symbol). Upholstery tint and dye solution, hydraulic brake fluid and anti-freeze solution for radiators of internal combustion engines. 570,119. Packard Motor Car Co.

PYRAY. Fluorescent dye. 578,317. Colgate-Palmolive-Peet Co.

F-218. Octafluoropropane, being fluorinated hydrocarbons used as refrigerants, propellants, and fire extinguishing preparations. 583,349. Kinetic Chemicals, Inc.

LTPEX. Carbon black for use in the rubber industry. 584,268. Columbian Carbon Co.

VITAMURE. Plant manures and fertilizers. 538,841. Alexander Products Ltd.

WHITE HOUSE. Plant and lawn foods, and garden fertilizers. 553,180. Cussins and Fearn Co.

ROSETONE. Plant stimulant. 573,223. American Chemical Paint Co.

SASCO PHOS. Fertilizers. 576,143. Mathieson Chemical Corp.

AIR-IN. Additive and curing agents for use in cementitious compositions and concrete. 580,365. Hunt Process Co.

PERMA-DRI. Compositions of a cementitious nature, containing siliceous particles, used for weather-proofing, insulation acoustical treatment, or as a moisture condensation and fire retardant. 595,293. Stephenson Air Brush Paint Co.

ELI WEATHERBY'S. Various paints and paint materials. 550,493. Davis Paint Co.

TWICE-A-YEAR. Laundry starch. 525,823. National Textile & Chemical Lab.

INDUSTRIAL FLOOR-DRY No. 85. Granular siliceous material for application to floors for absorbing oil, water, and other liquids. 525,825. Eagle-Picher Co.

NU-ERTH. Plant food and tonic. 535,830. Wisconsin Angler Farm.

Spessard's "MIRACLE GARDEN" Hydroponic Plant Food Formula 10. Hydroponic chemical plant food. 525,832. Hydroponics, Inc.

KELTROL. Drying oils for use in paints, varnishes, lacquers, and enamels. 554,983. Spencer Kellogg and Sons, Inc.

Stevens'. Ready-mixed paints and paste paints for brick and concrete surfaces. 567,526. John McGuade & Co., Inc.

UNDERPHENO. Resinous plastic protective coating composition for use on masonry surfaces, painted and varnished surfaces, and other similar type surfaces. 578,408. Phenoplast Corp.

CYKELSOY. Drying oil for use in paints, varnishes, lacquers, and enamels. 580,245. Spencer Kellogg and Sons, Inc.

MIRRO-GLAZE. Cleaner for automobile bodies and fenders which restores the finish. 564,576. Lustre Products Corp.

(Symbol) Cleaner for gold, silver, jewelry, brass, copper, windows, and chromium on autos. 567,267. A. Miranda and Co.

TUMBLE SUDS. Soap powder. 572,299. Economics Lab., Inc.

LI-QUAT. Cleansing and sanitizing preparation containing a quaternary ammonium compound as an active ingredient for cleansing and sanitizing milking machines, milk equipment, diary equipment, food containers and utensils, and eating utensils. 573,887. Milk Plant Specialties Corp.

From Official Gazette—Vol. 635, No. 2.

Asph-O-Lite. Synthetic resin coating preparation for sealing asphalt tile surfaces. 500,363 Carsolite Corp.

DARI-GLO. Ready-mixed paint. 515,556. Berkshire Paint Co.

"DUST-PROOF". For floor and furniture oil and polish. 526,804. Norman C. Hayner Co.

(Symbol) For floor wax in liquid, paste, and powdered form. 541,358. U. S. Sanitary Specialties Corp.

Davis. For automobile polish, cleaner, combination polish and cleaner. 548,032. Western Auto Supply Co.

Childsco. Oil, liquid wax, paste wax polish for automobiles, floors and furniture. 562,322. Childsco. Products Co.

FORMAX THE FOUR McALEERS. Polishing compounds namely, hand and machine, sanding, polishing and buffing compounds. 563,548. Formax Mfg. Corp.

NEW TRADEMARKS——

B A & Co. For cleaning preparations for textiles and the like, cleaning and polishing preparations, polishing cloths, shoe polish, polish removers, leather treating oil, leather softener and toilet articles. 570,153. B. Altman & Co.

WALL ART. For interior wall paint ready for use. 527,601. Minnesota Paints Inc.

VITROLENE. For wood floor sealer and finish ready for use. 527,961. Minnesota Paints Inc.

GILMAN. For exterior and interior paints and varnishes. 535,413. Gilman Paint and Varnish Co.

DIM-TONE. For ready-mixed liquid paints primarily intended for wall finishing. 535,565. J. F. Kurfees Paint Co.

WOW. Enamels and ready-mixed white paints particularly suitable for interior flat wall finish. 541,455. Republic Paint & Varnish Co.

VANITY. For 4-hour drying enamel semi-gloss paint particularly suitable for interior walls. 541,461. Republic Paint & Varnish Co.

EVRY-USE. For varnish. 556,063. Armstrong Paint & Varnish Works.

RH. Synthetic resinous materials or solutions or emulsions thereof primarily for protective or decorative coatings plasticizers for lacquer, enamel, paint, and similar coating compositions. 574,737. Rohm & Haas Co.

PENTALUX. Paints intended generally for household decoration, varnishes. 581,263. Imperial Chemical Industries, Ltd.

DWSS. For plastic coating with metallic ingredient for repairing and sealing metal and wood surfaces and protecting against rust and decay. 581,523. DWSS Co., Inc.

ZONETEX. Street marking paint. 583,871. Great Lakes Varnish Works, Inc.

From Official Gazette—Vol. 635, No. 3

PENTA PRESERVATIVE. Chemical solution for preserving lumber and wood. 515,935. Chapman Chemical Co.

INDRAIC ACID. For mixture of petroleum wax and resin, for general use in industry as a hardener for other waxes. 552,979. Industrial Raw Materials Corp.

NEF LAC COMPOUND A PRODUCT OF J. W. NEFF LABORATORIES INC. For slabs of thermoplastic material for pressing into phonograph records. 554,999. J. W. Neff Labs., Inc.

MASTER GLOW. For liquid floor polish. 550,461. Tru Cote Mfg. Co.

BULL-DOG. Gummed paper tape and gummed cloth tape. 534,414. Chicago Gum Tape Co.

AERO-KLENZ Preparation for use as a deodorant particularly to deodorize air in rooms. 552,629. W. F. Anderson, Inc.

JOHNSON'S ANT KILLER M. H. Johnson. Insecticide. 556,799. J. A. K. Co., Inc.

EXTELITE. Synthetic resin compositions and synthetic resin composition extenders. 558,982. Agicide Labs., Inc.

Magnesol. Silicious purifying and decolorizing material and absorbents namely, synthetic magnesium silicates. 563,958. Food Machinery and Chemical Corp.

LINAGRAPH. For photographic chemicals. 566,509. Eastman Kodak Co.

BRASCO. Insecticides and rodenticides. 567,677. Bradford Mfg. Co.

CINCH Anti-slip preparation for application to hands or implement used in sports, industry, and like. 569,668. Chem Products, Inc.

NORTH STAR. Anti-freeze preparations. 569,860. Kansas Labs., Inc.

Emergency FIREMAN. Comminuted free-flowing, fire-extinguishing dry chemical. 570,080. Ansul Chemical Co.

NEOTRAN. Parasiticide useful principally as acaracide. 570,407. Dow Chemical Co.

LASTA. Compositions for starching textiles and apparel. 572,970. Gordon Chemical Co., Inc.

DUBLE-POWER. Chemicals in powder form to be inserted into the cells of storage batteries containing sulphuric acid for preventing and deterring sulfation on the lead plates and for lowering the freezing point of the acid. 574,221. Duble-Power Chemical Co.

MONOFAST. Pigment colors for textile printing, plastic compounds, and rubber compounds. 574,365. H. Kohnstamm & Co., Inc.

ANTAPHOR. Anti-foaming agent. 574,559. Cita Ltd.

AMMORID. Rinsing composition. 575,063. Kinney and Co.

HOOKER LYCONS. Lye in hand size containers. 576,392. B. T. Babbitt, Inc.

BUFEN-1. Bactericide containing phenylmercuric acetate. 576,503. Buckman Labs., Inc.

HOOKER. Caustic soda, other than lye in hand size containers. 576,832. Hooker Electrochemical Co.

SOLVACOL. Alcoholic solvents. 578,118. Commercial Solvents Corp.

MOTHALENE. Naphthalene and paradichlorobenzene insecticides and deodorants. 578,269. Koppers Co., Inc.

STEROZOL. Germicidal and preservative compositions. 578,654. Wallerstein Co., Inc.

Dimite. Insecticide and miticide. 580,207. Sherwin-Williams Co.

Amazing Ammonia

applies for a job!



If ammonia, the versatile chemical, applied for a job, the interview would probably go like this:



EMPLOYER: How old are you?

AMMONIA: Many centuries. I helped the ancient Egyptians bleach cloth 3,000 years ago.

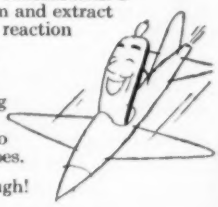
EMPLOYER: Amazing! But what do you do today?



AMMONIA: I grow farm crops, make ice, purify water, produce explosives.

EMPLOYER: I know you are a fertilizer, a refrigerant, and . . .

AMMONIA: Yes, and I serve as a protective atmosphere to surface-harden and anneal vital parts of planes and automobiles. I neutralize acid in petroleum and extract metals from ores. I'm a solvent and reaction medium in organic synthesis, a nutrient for yeast and a processing agent in the manufacture of alkalis, rayon, dyes, butadiene, and catalysts for cracking petroleum. I'm used in making vitamins, sulfa-drugs and radio and television parts and tubes.





EMPLOYER: Whoa—that's enough! What can you do for us?

AMMONIA: Just let a Barrett technical man talk it over with your chemists. He can usually find an answer that will speed up some process and save you dollars.

Barrett Standard Anhydrous Ammonia
in cylinders and tank cars

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The BETTER the ODOR the BIGGER the SALES!



...AND THE ODOR IS GONE!

The perfume chemist's skill in masking unpleasant odors, as applied to insecticide and disinfectant sprays has doubled and redoubled the spray maker's market by making these products pleasingly acceptable for household use . . . It might pay you to ponder the possibilities of using this same skill in the manufacture and merchandising of your company's products. But better still, mail the coupon and let us *show* you how.

PLEASE FILL IN AND MAIL

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76 NINTH AVE., NEW YORK 11, N. Y.

We are interested in ☐ PERFUMES ☐ ODOR NEUTRALIZERS for use in the manufacture of products checked below. What do you recommend?

☐ FORMALDEHYDE ☐ ADHESIVES
☐ CLEANING COMPOUNDS ☐ INK
☐ FUEL OIL ☐ LUBRICATING OILS
☐ SPRAYS ☐ WAXES ☐ PLASTICS
☐ RUBBER ☐ LATEX ☐ LEATHER
☐ PAINTS or LACQUER ☐ TEXTILES
☐ ROOM or ☐ HOSPITAL DEODORANTS
☐ OTHER PRODUCTS: _____

COMPANY: _____
ADDRESS: _____
CITY: _____ STATE: _____
ATTENTION: _____
TITLE: _____

FRITZSCHE Established 1871
Brothers, Inc.
PORT AUTHORITY BUILDING
76 NINTH AVENUE, NEW YORK 11, N. Y.

NEW TRADEMARKS——

Halodane. Insecticide. 580,208. Sherwin-Williams Co.

Toxatone. Insecticides and pesticides. 580,210. Sherwin-Williams Co.

DENCIL. Gold soldering flux. 580,629. Spyco Smelting & Refining Co.

Fomade. Stabilizer for use in compounding rubber latex. 580,761. R. T. Vanderbilt Co., Inc.

IMAGE. Solution applied to lithographic paper plates for preserving the same and a solution used to remove image material from paper plates 582,823. Columbia Ribbon & Carbon Mfg. Co., Inc.

LURADOL. Photographic chemicals. 582,833. General Aniline & Film Corp.

ZOK. Insecticides. 583,208. Catex Chemical Sales Co.

FILARIC. Parasiticide. 584,469. Sharp & Dohme, Inc.

TEMPROTEX. Anti-freeze solution. 584,782. Temprotex Corp.

TETRAPOSFORG. Corrosion and scale preventive and inhibitor in water systems. 585,201. Wright Chemical Corp.

SULFORG-A.C. Chemical composition for absorbing dissolved oxygen in boilers and other aqueous systems. 585,205. Wright Chemical Corp.

WRIKORG-C. Scale formation preventive in cane sugar mill and other evaporators and water conditioner especially where mineral concentration is high. 585,206. Wright Chemical Corp.

PYROFOSFORG. Chemical composition for boiler water conditioning. 585,207. Wright Chemical Corp.

IBM. Inking ribbons and inks. 579,427. International Business Machines Corp.

PENN SALT. Chemically resistant material used as a bonding cement for brick or tile, or as a coating for other construction material subject to chemical attack. 560,047. Pennsylvania Salt Mfg. Co.

CAULK-O-SEAL. Plastic caulking and glazing compounds. 563,055. Calbar Paint & Varnish Co.

CHIMNEY SWEEP. Chemical additive to fuel oils and kerosene to aid in eliminating soot, sludge, water, and odors. 572,947. G. N. Coughlan Co.

drout. Water absorbing and fuel system cleansing material for use in internal combustion engine fuels. 575,568. Casite Corp.

(Symbol) Interior and exterior paints for all types of surfaces. 530,076. Patek Brothers, Inc.

ARNO TONE. Transparent, liquid finish for wood surfaces. 551,023. Arny Chemical Corp.

SOLDURA. Oil base paints. 552,284. Solar Varnish Corp.

Treasure Tones. Prepared architectural house paints, air-drying varnishes, and paints. 558,848. Bishop-Conklin Co.

PAINT WITH Treasure Tones. Prepared architectural house paints, air-drying varnishes, enamels, and paints. 560,091. Bishop-Conklin Co.

SANTOSEAL. Resinous plastic solutions for water-proofing wood and other porous surfaces for protective coating or lining and resinous plastic solutions with pigments and toxicants for protective coating on all kinds of surfaces. 565,798. Monsanto Chemical Co.

KARNAK. Asphalt base liquid protective paint coating for sound-proofing and rust-proofing the under surfaces of metal products. 567,412. Lewis Asphalt Engineering Corp.

(Symbol) Paints and ready-mixed liquid, paste, dry form, varnishes, paint, etc. 568,296. Central Paint & Varnish Works, Inc.

Tradewinds. Ready-mixed marine paints. 583,786. C. A. Woolsey Paint & Color Co., Inc.

Pirate's Gold. Gold paint. 585,548. Spencer-Adams Paint Co.

Pirate's Silver. Silver paint. 585,549. Spencer-Adams Paint Co.

ALROSOL. Detergent and wetting agent soluble in water and many organic solvents, used particularly in cleaners and as a scouring agent. 549,039. Alrose Chemical Co.

VICAR FIT. Synthetic detergent in powder form for use in cleaning any oiled or polished surfaces and for use in laundry machines and textile cleaning. 558,185. Virginia-Carolina Chemical Corp.

BUSCO. Liquid, powdered, and caked cleansing compounds, oil soap, cake soap for household uses. 563,304. Buffalo Scientific Co.

PURGITE. Chemicals compounded for flushing engine cooling systems. 565,173. Choldun Mfg. Corp.

ASTARTE. Soap, shampoo, cleanser, and scale detergent. 571,496. Allied Distributors.

Purgo. Liquids for cleaning automobile, steam, or hot water radiators. 577,482. Liquid Veneer Corp.

Frisk. All-purpose detergent. 589,693. American Colloids Co.

Jentle pearls Granulated soaps. 590,535. Towsley, Inc.

From Official Gazette—Volume 635, No. 4

PARKO. Cleaning, polishing and rubbing compounds for painted, varnished, enameled, and lacquered surfaces consisting of an abrasive suspended in a water and oil emulsion; polishing waxes for finished surfaces; liquid furniture polish; liquid floor polishing wax; liquid scratch cover masking compound and ready-mixed white tire paint. 513,227. Park Chemical Co.

FLEX-SPAN. Specially formulated liquid plastic used in connection with producing ornaments and the like. 552,154. Flexcraft Industries.

FLORCO. Adsorbents from natural earth useful in removing oil and grease accumulations. 573,123. Floridin Co.

O CEDAR. Waxes and polishes. 522,557. O-Cedar Corp.

O CEDAR. Cleaners and polishes. 561,261. O-Cedar Corp.

LEA. Compounds for buffing, polishing, burnishing and finishing metallic and other surfaces; compositions for sizing and setting up buffing and polishing wheels and belts with said compounds; and an egg cleaner kit comprising a buff and a special buffing compound. 572,434. Lea Mfg. Co.

PERFECTION. Shoe cleaners and dressings. 526,184. American Polish Co.

Laun Care. Chemical preparation for controlling and destroying weeds and controlling pests. 559,948. O. M. Scott & Sons Co.

AHCO. Mild acid compound for neutralizing alkali in laundry wash and having rust-removing properties. 561,179. Apothecaries Hall Co.

BRISK. Chemical composition containing wax and starch for improving the finish and facilitating the ironing of fabrics. 568,376. S. C. Johnson & Son, Inc.

STERIKLENE. Sterilizing and cleaning solution for shaver heads of the kind used in electric shavers. 572,771. Remington Rand Inc.

AMERCHOL. Sterol products which are used as a chemical preparation in emulsifiers, penetrants, and emollients. 575,741. American Cholesterol Products, Inc.

PARKER PROCESS. Rust proofing and rust inhibiting chemicals, chemicals for preparing metals for wear resistance, and chemicals for aid in metals. 580,143. Parker Rust Proof Co.

JETSIT. Room deodorants. 580,233. Eston Chemicals, Inc.

R.D.S.—1410. Insecticide in liquid form. 580,687. John Sexton & Co.

MIRACULA. Dry chemical compound for use, when mixed with water or formaldehyde, to preserve various organic and inorganic substances and to be used in embalming. 581,994. Service Industries.

KARE. Insecticides. 582,760. Windsor Wax Co., Inc.

PENTADINE. Wood preservative. 584,654. American Chemical Paint Co.

ATMOS. Food emulsifiers for use in the manufacture of frozen confections. 568,168. Atlas Powder Co.

SPRITE. Deodorant spray and non-perspirant for personal use. 582,054. Parma-Craft Corp.

PERFECTION. Shoe cleaners and dressings. 526,184. American Polish Co.

WINDEX Spray. Liquid cleaner for glass and vitreous surfaces. 585,111. Drackett Co.

EVER-BRIGHT. Linseed oil, turpentine, ready-mixed oil paints, related products, floor waxes. 527,042. Davis Paint Co.

GENUINE LEMON JUICE SOAP. Toilet soap. 527,047. Salomon Fretes, Societe a Responsabilite Limitee.

From Official Gazette—Volume 636, No. 1

UNILAB. Buffing and polishing compounds for metal surfaces. 568,815. United Labs Co.

Shu-Glo. Shoe polish. 574,389. Sigma Chemical Co., Inc.

MIT-E-KIL. Insecticide. 516,280. Hinton & Co., Inc.

BOREN BLUE BLAZE. Electrolytic solution for storage batteries. 571,006. Boren Mining Co.

ARIPERM. Substantive, durable, anti-fume finish for textiles of cellulose acetate. 574,481. Arkansas Co., Inc.

SALIGNA. Composition for seasoning lumber. 575,282. Morton Salt Co.

SOREXA. Chemical product for the destruction of mice, rats, and other mammalian pests. 578,760. Ward Blenkinsop & Co., Ltd.

L-100. Urea formaldehyde liquid resin. 578,817. Perkins Glue Co.

ELO. Chemical compounds for removing and stripping adhesives, labels, and finishes from bottles, cans, or the like containers. 579,181. Doe & Ingalls, Inc.

ROSE-X Sodium hyochlorite solution, ammonia and liquid laundry starch. 580,326. Roselux Chemical Co., Inc.

HiQ. Anti-freeze mixture and hydraulic brake fluid. 580,817. General Products.

Gingham Girl. Liquid synthetic plastic starch. 581,204. O'Neill Chemical Co.

RULON'S. Acid neutralizers, bleaching compounds, and household germicides. 583,296. Rulon Labs., Inc.

ALBASOL. Emulsifying and dispersing agents. 585,664. Nopco Chemical Co.

(Turn to page 658)



Wonderful way to feel!

You certainly can be on top of the world!

Why not? Your car is paid for and your house is halfway there. You're making pretty good money . . . the kids are healthy and happy . . . and your wife just bought a new outfit—shoes to chapeau!

You don't owe anybody a red cent. Not only that—you've got a little money salted away for the kids' education and your own retirement.

Wonderful way to feel, isn't it?

If this description doesn't fit you—*make it!* You can.

Here's how . . .

Start saving right now! Just as much as you possibly can—*and regularly!*

One of the best ways . . . one of the safest, surest ways . . . is to buy U. S. Savings Bonds through the Automatic Payroll Savings Plan where you work. Or, arrange to purchase Bonds regularly at your post office or bank.

U. S. Savings Bonds will bring you, in ten years, $4 for every $3 you've invested. And you can count on that!

Start your plan today. It's the very wisest way to save!

Automatic Saving is Sure Saving — U.S. Savings Bonds

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CHECK THE PROPERTIES OF THESE CASTOR OIL DERIVED fatty acids

Alkyd Compounding

Both acids are characterized by high degree of chemical reactivity and strong resistance to after-yellowing. 9-11 Acids alkyds provide excellent gloss, adhesion, and durability. Try it for up-grading soya fatty acids.

Plasticizing

P-10 is strongly recommended as a most efficient and economical plasticizer for allyl starch and Zein.

TYPE →	DRYING	NON-DRYING
TRADE NAME	9-11 ACIDS	P-10
CHEMICAL NATURE	9-11 LINOLEIC	RICINOLEIC
MOLECULAR WEIGHT	281	296
COLOR (G-H)	2+	10
NEUTRALIZATION VALUE	193	180
IODINE (WIJS)	150	89

Consult our Technical Service Department for further information

APPLICATIONS

9-11 ACIDS — Alkyds, driers, in-situ varnishes, epicholohydrin bis-phenol resin reactions.

P-10 — Alkyds, cosmetics, soaps, grease making, pharmaceuticals, emulsifying agent, plasticizer for allyl starch and Zein.

ESTABLISHED 1857

THE baker CASTOR OIL COMPANY

LOS ANGELES 120 BROADWAY, NEW YORK 5, N. Y. CHICAGO

NEW CHEMICAL PRODUCTS

Tricarboxylic Acid (602A)

Carboxymethylmercaptosuccinic acid is available in pilot-plant quantities.

An interesting intermediate that combines a thioether linkage with three carboxylic acid groups is available in pilot-plant lots from Evans Chemetics, Inc., 250 E. 43rd St., New York 17, N. Y.

The compound is a white powder melting at 136-138 C., very soluble in water and alcohol. Minimum purity of the material is 98%.

Suggested uses include synthesis of alkyd-type resins, plasticizers, surface-active agents, oil additives, pharmaceuticals, dyestuffs, rubber chemicals, stabilizers, and insecticides. Current prices range from $2.00 to $1.15 per lb., depending on quantity. Samples are available on request.

Plasticizers (602B)

New series of plasticizers are primary for cellulosics, secondary for polyvinyl chloride.

Seven new plasticizers introduced by Atlas Powder Co., Industrial Chemicals Dept., Wilmington 99, Del., are designed as primary plasticizers for nitrocellulose, cellulose acetate-butyrate and similar cellulosic polymers. At the same time, however, they are useful secondary plasticizers for polyvinyl chloride compositions.

Designated Pycal plasticizers, these materials are reported to be monomeric ester-type compounds. One is a solid, the sharp melting point of which is of advantage in the preparation of specialty heat-sensitive formulations; e.g., adhesives. One is a viscous liquid, and the other five are mobile liquids. One is of particular interest because of its low cost, and its use up to 25% in vinyl formulations, where it replaces more expensive plasticizers, permits material economies.

Data sheets describing these plasticizers are available from the manufacturer.

Di-t-butyl Peroxide (602C)

Polymerization catalyst and intermediate now in commercial manufacture.

Di-t-butyl peroxide is now made in commercial quantities by Lucidol Division, Novadel-Agene Corp., 1740 Military Road, Buffalo 5, New York.

The new product is an unusually stable organic peroxide with a high temperature of decomposition. It is an excellent source of free radicals and as such finds use as a raw material in organic syntheses and as a polymerization catalyst, particularly at temperatures above 100° C. The commercial product assays 97.0% (min.) which is equivalent to an active oxygen content of 10.6% (min.).

Shipment is made as an inflammable liquid (Red Label) in amber glass bottles, 1 lb. and 6 lb. net, and in ICC-17E steel drums, 30 lb. (5 gal.), and 98 lb. (15 gal.) net.

Technical data, price quotations and samples are available on request.

Vinyl Plasticizer (602D)

High-molecular-weight monomeric plasticizer possesses many advantages of polymerics.

Staflex KA is a new ester-type plasticizer offered to vinyl plasticizers by Deecy Products Co., 120 Potter St., Cambridge 42, Mass.

The new material is designed to incorporate some of the advantages possessed by polymeric plasticizers without the disadvantages of those materials. Staflex KA is a liquid with a somewhat higher viscosity than dioctyl phthalate but easily dispensed from drums and dry-mixed with resin. Stocks based on Staflex KA process easily; i.e., they show rapid resin dispersion and excellent plasticity on the mill or calender.

Because of a higher-than-usual molecular weight, the new plasticizer has migration rates considerably lower than those of common primary plasticizers. At room temperature loss by migration of Staflex KA is close to that of the polymerics.

A data sheet describing further advantages and presenting technical data is available from the manufacturer.

Hydrogen Bromide (602E)

Westvaco now making hydrogen bromide on commercial basis.

Hydrogen bromide, anhydrous, a new product of Westvaco Chemical Division's research and development, is now a standard commercial item.

A new price schedule, effective immediately is as follows:

35 lb. net cylinders	75¢ per lb.
100 lb. net cylinders	
Lots of less than 1500 lbs.	60¢ per lb.
Lots of 1500 lbs. or more	55¢ per lb.

These prices are f.o.b. South Charleston, West Va., but rail and motor freight equalized with Midland, Mich.

Continued process improvements and increased use in the pharmaceutical and organic chemical fields have made these developments possible.

N-Methyltaurine (602F)

Useful intermediate available in experimental quantities.

N-Methyltaurine, a versatile intermediate for detergents, dyestuffs, pharmaceuticals and many other organic chemicals, is now available to industry in experimental quantities from the Industrial Chemicals Department, Antara Products, General Aniline & Film Corp., 435 Hudson Street, New York 14, N. Y.

Long a "captive" intermediate manufactured solely for General Aniline use, N-methyltaurine is sold to industry in the form of an aqueous solution of its sodium salt. It is a valuable, low-cost intermediate with many interesting potentialities. Other taurine derivatives (butyltaurine, for instance) with many possible applications can also be made by the company.

The sodium N-methyltaurine solution contains 34-36% by weight of the sodium salt, together with approximately 1% of free caustic soda. The sodium salt itself behaves as a weak base, and as such, will react with one equivalent of acid.

The bifunctional character of N-methyltaurine which contains both a secondary amine group and a solubilizing sulfonic acid group, makes it of interest to dyestuff and pharmaceutical manufacturers, especially as a stabilizer and solubilizer.

Enamel Resin (602G)

Resistance to soap and good color retention mark new resin for appliance enamels.

A new resin, a vehicle for white baking enamels, is now provided to appliance finish manufacturers by the Plaskon Division of Libbey-Owens-Ford Glass Co., Toledo 6, Ohio. High soap resistance and color retention characterize Plaskon 3101.

Tentative physical constants of Plaskon 3101 are as follows:

Solids content	60 ± 1%
Solvents	Xylol 39.2 Butanol 0.8
Acid No. (solution)	2-6
Viscosity	Z_5-Z_6
Color	1-4
Pounds per gallon	8.61
Solids @ C-E Viscosity	40%
Oil type	Non-oxidizing
Phthalic Anhydride	45%
Resin	None
Phenolic Resin	None

Suggested formulation for white baking enamel:

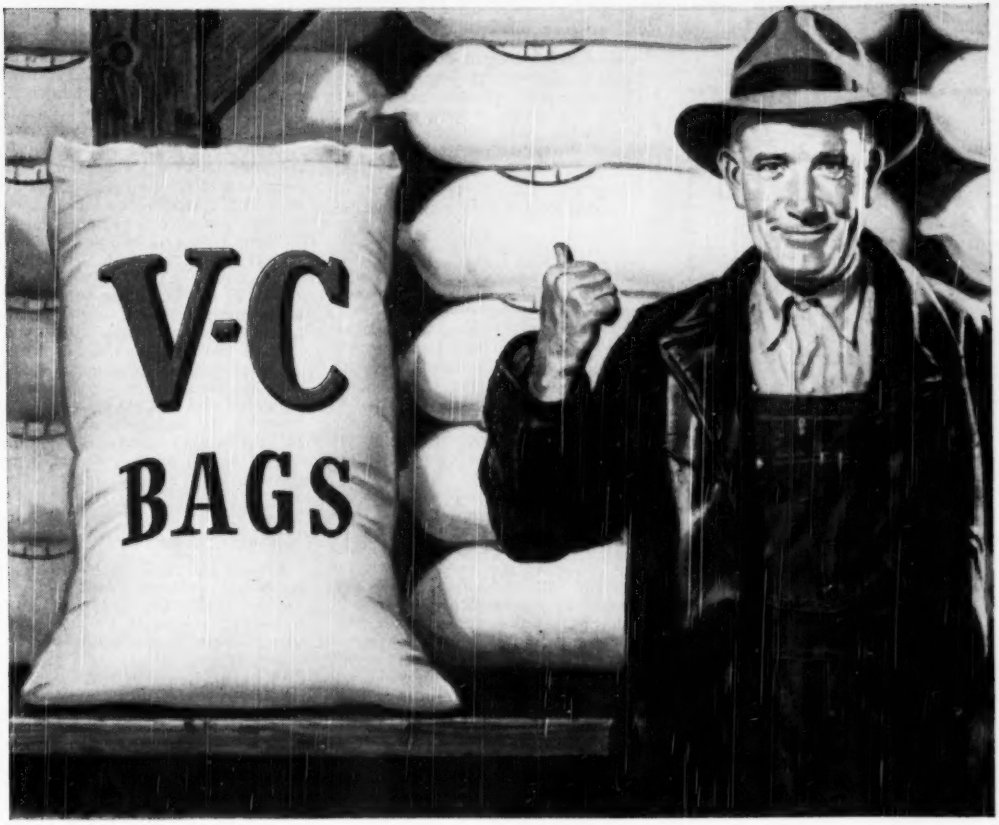
	Parts by Weight
Plaskon 3101	133
Plaskon 3381	40
TiO_2—Anatase	100
Xylol	100

Baking Schedule: 20 minutes at 325° F.

Trifluoroacetic Anhydride (602H)

Fluorine chemical promotes esterification of carboxylic acids.

Trifluoroacetic anhydride, powerful esterification agent, is now offered in research quantities by Halogen Chemicals, Inc., 616 King St., Columbia 5, S. C. A pungent, water-



"We've used them for 52 years"

In factories and on farms in many states, V-C Bags are well-known for their ability to stand up under rough, tough treatment—in handling, in shipping and in storage. Since 1898, V-C's better textile bags have been famous for their economy, quality, strength and durability. Multiwall paper bags have now been added to this famous line.

Whether you use multiwall, burlap or cotton shipping bags, you can depend on V-C's bag-making experience to solve your packaging problems with bags engineered to your exact requirements.

Manufactured from top-grade materials, V-C Bags are expertly designed and constructed to provide maximum protection under all conditions. They are available in standard sizes, attractively printed to your specifications.

It will pay you to discuss your bag requirements with a V-C representative. Ask him about V-C's speedy deliveries and expert technical assistance.

BAG DIVISION
Virginia-Carolina Chemical Corporation
9TH and PERRY STREETS • RICHMOND, VIRGINIA
District Sales Office: 1215 Sylvan Road, S.W., Atlanta, Ga.

VC BAGS

- BURLAP
- MULTIWALL
- COTTON

NIACET

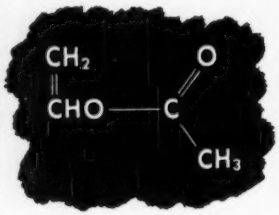
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UNPOLYMERIZED

VINYL

ACETATE

(STABILIZED)



BOILING RANGE
71.8° to 73°C.

Vinyl Acetate can be polymerized to form resins with exceptional bonding qualities for wood, glass, metal and fibre.

Vinyl Acetate can be used for synthesis of a-b-dichloroethyl acetate, b-monochlor ethyl acetate, b-chloro acetals, 2-aminothiazole, chloroacetaldehyde and many others.

Containers: —

410 lb. drums

62,500 lb. tank cars

NIACET
CHEMICALS DIVISION
UNITED STATES VANADIUM CORPORATION
Unit of Union Carbide and Carbon Corporation

Sales Offices:
922 Niagara Bldg. • Niagara Falls, N. Y.

white liquid boiling at 40° C., trifluoroacetic anhydride has been found to be especially valuable to promote ester formation between hydroxy compounds and carboxylic acids, both aliphatic and aromatic. The conditions of esterification are relatively mild and the reaction is usually complete within a few minutes.

Acrylic for Extrusion (604A)

New Plexiglas modification is suitable for extrusion molding.

Recent modifications in Plexiglas VM acrylic molding powder have made it as easily handled for extrusion as for injection molding, according to the manufacturer, Rohm & Haas Co.

Physical properties of the powder, a medium heat range material, are unchanged; but the improved formulation makes possible extrusions by standard techniques, with oven drying usually sufficient. High production rates without seed bubbles and "fisheyes" are other advantages claimed on the basis of thorough testing by commercial extruders.

When supplied for extrusion applications, the powder is designated as Plexiglas VM (Extrusion Grade). A technical bulletin on recommended extrusion procedures is available from Rohm & Haas Co., Washington Square, Philadelphia 5, Pa.

Printing Glass Fabrics (604B)

Synthetic rubber latex used in printing paste for glass fabrics.

A recently developed method of screen printing Coronized Fiberglas fabrics has made possible new colorful drapery materials. Called the Hycar-Quilon method, the process is similar in certain respects to water dispersion type resin-pigment systems widely used in printing cottons, rayons, etc. It has proved to be the only process to date which gives excellent wash fastness and resistance to crocking, while still not impairing the wrinkle resistance, drapability, and incombustibility of Coronized glass fabrics.

In the development of the process, Owens-Corning technicians have attempted to simulate standard screen printing procedures so that printers will not encounter difficulties in handling the fabrics.

The Fiberglas drapery fabrics first undergo high-temperature treatment which renders the fibers soft and pliable and also permanently sets the crimp which makes them wrinkle-resistant. A light coating of cationic agent is then applied which acts as a lubricant and protective agent for the bare glass fabric and also prepares the surface for printing.

The Hycar-Quilon printing paste is a liquid dispersion with the consistency of conventional workable pastes to which printers are accustomed. Function of the Hycar ingredient is to serve as a binder for pigments which are subsequently added to the paste. The Hycar latex is brought to proper consistency by the addition of a special thickening agent. After printing, the goods are then cured at 300° F. for approximately ½ minute, then immersed for 15 seconds in a dilute solution of a special after-treatment, and finally dried at 250° F.

The Hycar latex has found wide usage in paper and fabric saturation applications where light stability and freedom from discoloration are important. It contains a special non-discoloring, non-staining antioxidant and a stabilizing agent that improves its mechanical stability and reduces its surface tension to a minimum, thereby improving its penetration.

Amino Acids (604C)

l-Threonine and dl-Allothreonine available in research quantities.

Research quantities of l-Threonine and dl-Allothreonine are now available from the Special Chemicals Division, Winthrop-Stearns, Inc., 1450 Broadway, New York 18.

Introduction of these two essential amino acids brings to twenty-three the total number of varieties offered by the company.

l-Threonine is the naturally occurring isomer and is the form normally required by both mamals and micro-organisms for nutrition and growth. dl-Allothreonine is a stereochemical isomer of threonine.

Polyol (604D)

Polyoxyethylene glucose can substitute for hard-to-get glycerine and other polyols in many uses.

In view of the general polyol shortage, G-2340 (polyoxyethylene glucose) is offered by the Industrial Chemicals Department, Atlas Powder Co., Wilmington 99, Del., as a possible substitute for many uses. Examples: in the leather, fibre, cork composition, gasket and certain paper manufacturing fields.

G-2340 is a water-white, water-soluble liquid, containing about 5% water. It is a polyhydric material, having hygroscopic and humectant properties similar to technical sorbitol, but is less viscous (300 cp. vs. 3,300 cp. for sorbitol; 500 cp. for glycerine).

G-2340 may be diluted with additional water for application as desired. It is compatible with sorbitol solutions, glycerine, propylene glycol and other polyols and might possibly be used as an extender for these materials.

Since G-2340 contains an appreciable amount of reducing sugars, it

A high purity *coagulant* especially manufactured for compounders of latex products...



Photo Courtesy American Anode, Inc., Akron, Ohio

Baker's CALCIUM NITRATE

6 Baker Chemicals for the Rubber Industry

- CALCIUM NITRATE
- MAGNESIUM OXIDE
- MAGNESIUM CARBONATE
- LEAD ACETATE
- LEAD PEROXIDE
- CARBON DISULFIDE

The dependable uniformity and high quality of Baker's Calcium Nitrate gives it an ever-widening appeal to the rubber industry.

Especially manufactured for use by latex compounders, Baker's Calcium Nitrate has the exceptionally high purity demanded in a coagulant. It has superior wetting qualities . . . does not harden in the barrels, and remains in workable condition . . . gives more uniform results, with less trouble in process work.

This product is a technical crystal ranging in size from 1½" to smaller sizes. It is a creamy white color. It contains 3 molecules of water of crystallization.

Baker's Calcium Nitrate helps reduce overall production costs—gives you efficient and economical results! Specify it for your processing.

Baker supplies several other chemicals to the rubber industry—chemicals known for their uniformity and dependability. Whatever your needs, your inquiries for samples and prices are invited. Write to J. T. Baker Chemical Co., *Executive Offices:* Phillipsburg, New Jersey.

Baker's Chemicals

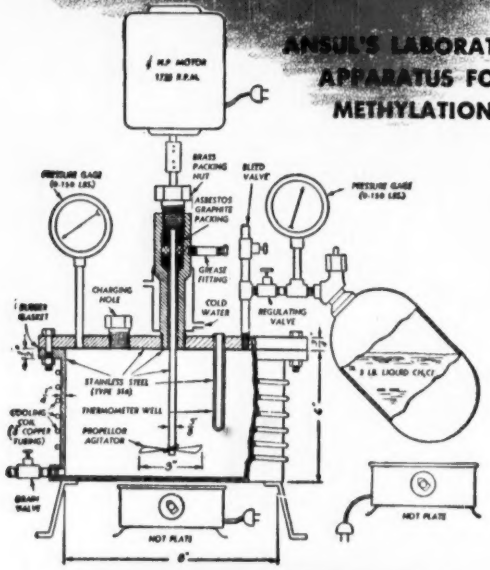
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IT'S Easy AND Economical TOO!

ANSUL'S LABORATORY APPARATUS FOR METHYLATION



ADVANTAGES OF CH_3Cl:

1—The rate of methylation is high at moderate (30-60 lb. per sq. in. gage) pressure and temperature. (50-100° C.)
2—More stable than other common methylating agents.
3—Can be conveniently weighed, metered, etc.
4—A low-priced chemical available in cylinders and tank cars.

Recommended for methylation of amines, phenols, alcohols, hydrocarbons and others.

Consult Ansul's research and technical departments on your methylation processes for data of direct benefit to you.

LIQUID Methyl Chloride by ANSUL*

PHYSICAL PROPERTIES

Chemical formula	CH_3Cl
Molecular weight	50.491
Color (gas or liquid)	Colorless
Odor	Ethereal, non-irritating
Melting point	-144°F. (-97.6°C.)
Boiling point	-10.65°F. (-23.7°C.)
Critical Temperature	289.6°F. (143.1°C.)
Critical pressure	969.2 lbs. per sq. in. abs.
Solubility	Methyl chloride in water—3 to 4 volumes methyl chloride vapor in 1 volume of water at ordinary temperatures and atmospheric pressure — methyl chloride in alcohol — readily soluble.
Specific gravity of liquid	.909

*REG. U. S. PAT. OFF.



Send for Bulletin No. C-970, "Methylation with Methyl Chloride," and for "Liquid Methyl Chloride," a treatise on the properties and general handling of Ansul CH_3Cl.

ANSUL ALSO MANUFACTURES LIQUID SULFUR DIOXIDE

ANSUL CHEMICAL COMPANY
INDUSTRIAL CHEMICALS DIVISION, MARINETTE, WISCONSIN
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NEW CHEMICAL PRODUCTS——

will have a tendency to tan glues. It is also suggested that its use in foods be avoided because of the lack of feeding studies data.

Pantothenic Assay (606A)

Rapid colorimetric method replaces microbiological assay of vitamin B component.

A rapid colorimetric method for the determination of panthenol and pantothenates has been developed by Hoffmann-La Roche Inc., Nutley, N. J.

The method may be applied for the assay of panthenol and d-calcium pantothenate in pure form as well as in tablets and ampules.

Results can be obtained in shorter time than required by present microbiological procedure, with good agreement between both.

Since panthenol and pantothenates assume considerable importance as members of the vitamin B-complex family, the method should be of great interest to manufacturers of vitamin preparations.

• Production of **Koch acid**, a dye intermediate, has been undertaken by Monsanto Chemical Co. It marks an addition to the company's extensive line of dye intermediate chemicals. Koch acid will be available at competitive prices from the Everett, Mass. plant. (606B)

CHEMICAL SPECIALTIES——

(Continued from page 582)

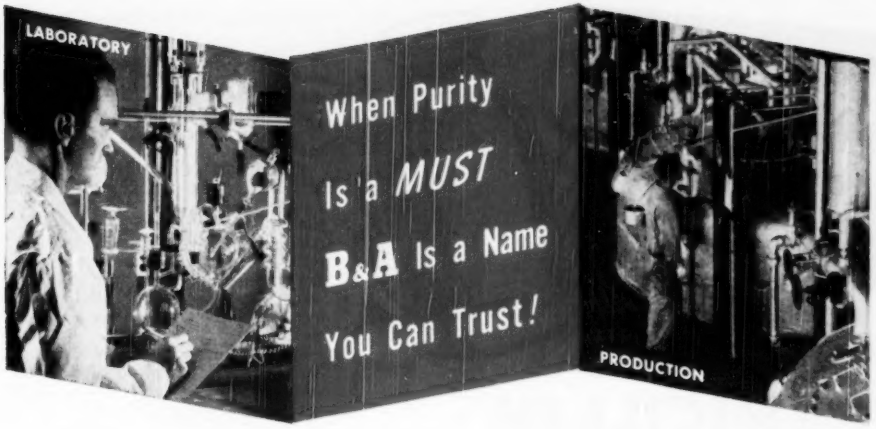
shipping cases as covered in JAN-P-108. Manufacture of case liners for wooden boxes and water-resistant paper bags, and other flexible wrapping operations are handled by four adhesives meeting requirements of JAN-P-140 specification. Paisley says that the complete line has been tested by approved laboratories and the company certifies that it complies with Government requirements. The JAN specification adhesives are available in one-, five-, and fifty-five-gallon drum packings.

Animal Sterol (606C)

New formulation permits more accurate dispersion in mashes.

Du Pont's Delsterol D-activated animal sterol is now being offered in a new carrier and with a higher vitamin potency that means lower use cost, says the company. The new formulation provides 4000 D units per gram, double the concentration of the familiar 2000-D Delsterol, which is still available.

Refined corn meal is the new carrier used for both 2000-D and 4000-D



ALL BAKER & ADAMSON

"C.P." ACIDS and AMMONIA

EXCEED A. C. S. REQUIREMENTS

Whether for laboratory research or for exacting production use, when your plans call for *highest purity* acids and ammonia—be sure you specify B&A.

Year in, year out Baker & Adamson "C.P." Acids and Ammonia always meet or surpass the strict purity standards set by the chemical profession itself—*through the American Chemical Society*—governing reagents suitable for careful analytical work. Every *ton* —every *pound*—is "quality controlled" at each step on its way to you.

These purity products are packaged in 1 lb. and 5 pint bottles, and in B&A's special 6½ gallon carboy—the completely-covered container with screw-cap closure which is ideally suited for process use.

Production facilities for B&A Reagent Acids and Ammonia are strategically located across the nation; and ready-for-delivery stocks are carried by B&A's huge chain of distributing stations in industrial centers from coast to coast. Any one of the offices listed below will handle your order promptly and efficiently.

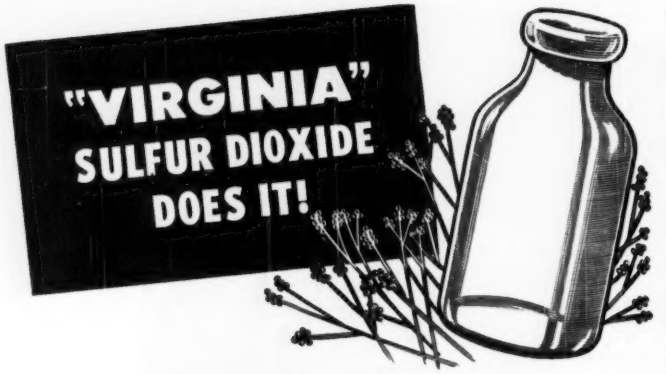
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SETTING THE PACE IN CHEMICAL PURITY SINCE 1882

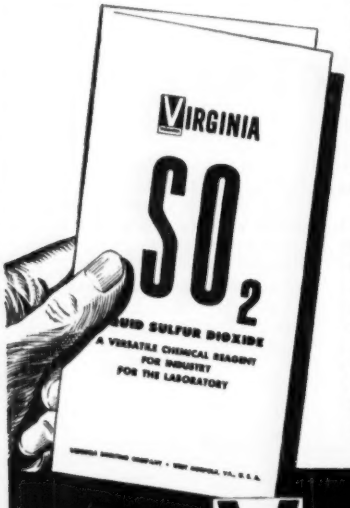
* Complete stocks are carried here.



PENICILLIN must be potent

Penicillin, one of the miracles of modern medicine, must be delivered to the patient with its effectiveness unimpaired. This great germ-killer is quickly ruined by the soluble elements found in ordinary bottle glass. Until recently, a much more costly glass had to be used for Penicillin containers.

This problem was permanently licked by "Virginia" know-how in developing a successful application of "Virginia" Liquid Sulfur Dioxide (SO_2) in the manufacturing of inexpensive soda-lime glass bottles. The improvement in the quality of these bottles was made possible by the introduction of small quantities of our low-cost SO_2 into the cooling lehr of the glass production line, thus eliminating the undesirable surface alkalis. "Virginia" technicians are thoroughly familiar with this use of SO_2—as they are with its properties as a reducing agent, bleach, antichlor, and pH control—through 29 years' experience with it in over 40 different industries.



This unmatched proficiency in the application of low-cost SO_2 may be of immense value to you if your processes call for a chemical of its varied capacities. It may work wonders with your production costs and the quality of your product. We'd like to cooperate with you in finding out. Send for our free SO_2 booklet. VIRGINIA SMELTING COMPANY, Dept. C1, West Norfolk, Virginia.

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types. The harder granules and more uniform particle size make possible greater precision in accurately dispersing it. This, claims Du Pont, eliminates any tendency of the carrier to cake.

Like 2000-D, the new formulation is used in several ways to fortify mashes. It may be placed directly in the feed mixer with other food elements, or mixed with middlings or other organic feed material before the final mixing. Or it may be made into a D pre-mix with other organic feed ingredients, excluding mineral elements.

Delsterol was developed to provide the specific nutritional element needed to fortify poultry feeds with anti-rachitic factory. It is stable and uniform in Vitamin D potency.

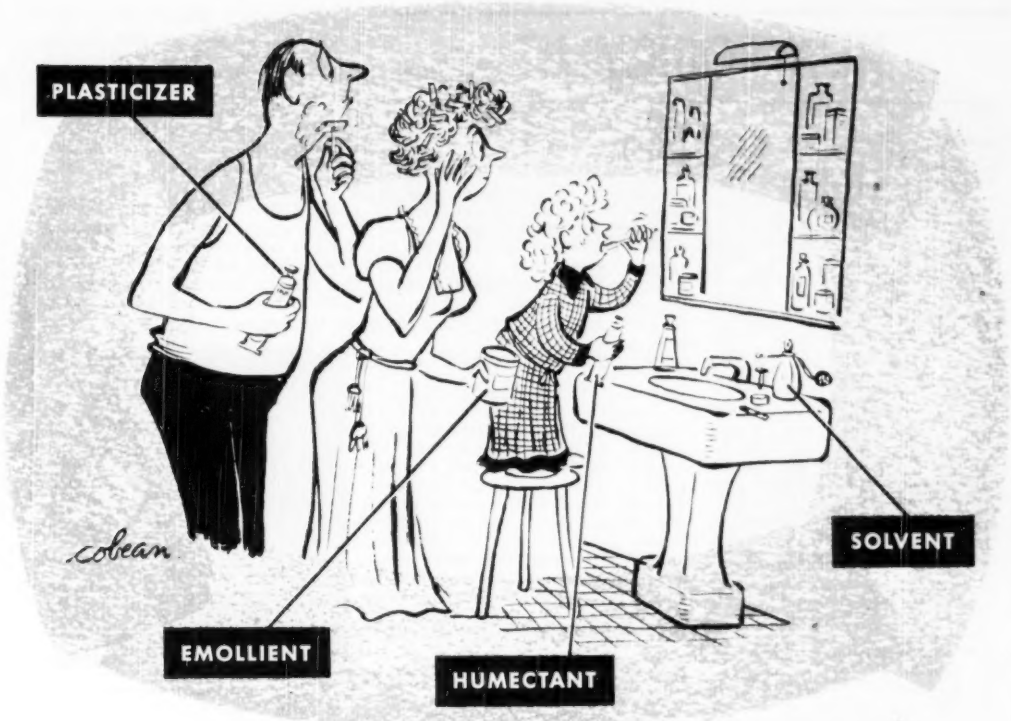
• Acme 2-L-177 and 2-L-178 are the latest additions to the line of **liquid tripoli compositions** made by Hanson-Van Winkle-Munning Co., Matawan, N. J. They are oil-water emulsions, said to combine excellent cutting qualities with unusually high coloring ability for the degree of cut obtained. The former is recommended for maximum cut and the latter for cut-color wherever a general-purpose tripoli would be used. (608A)

• Sharp & Dohme, Inc., Philadelphia 1, Pa., is producing Topaminic, a new **anti-histaminic, analgesic cream** for relief from itching due to dermatitis and other allergic skin disorders.

A soothing, protective preparation, Topaminic suppresses effects of histamine-like substances that may be released in the skin during allergic reaction and arrests the desire to scratch, thus minimizing secondary infections that sometimes occur in irritated skin. With relief of intolerable itching, Sharp & Dohme explain, the physician can better determine the underlying cause and institute specific therapy.

In addition to methapyrilene hydrochloride, a potent antihistamine, the product contains salamine, benzocaine, and hexylated m-cresol in a bland water-washable base. Topaminic comes in 1 oz. tubes. (608B)

• Five important drugs are now available nationally in Ampins, the **automatic injectable ampules** made by Winthrop Stearns, Inc., 1450 Broadway, New York 18. Luminal sodium; procaine penicillin aqueous suspension; procaine penicillin G with aluminum monostearate fortified; salyrgan-theophylline, a mercurial diuretic; and Demerol, 100 mg. 2 cc., an analgesic, are now packaged in the 1 cc. ampules. All types of Ampins come in boxes of five. (608C)



Beauty is a family affair - with Glycerine!

Safeguarding family hygiene and enhancing family beauty are full-time jobs for U.S.P. Glycerine! Everyone from Pop on down depends on toiletries compounded with Glycerine . . . because U.S.P. Glycerine is *physiologically safe*, and because no single substitute can match its unique combination of chemical and physical properties. You'll find it in shaving creams, tooth pastes, liquid deodorants, vanishing creams and liquid face powders—to name just a few. For further information, write for your copy of "*Why Glycerine for Drugs and Cosmetics?*"

U.S.P. Glycerine has become virtually an indispensable ingredient in certain protective creams for industry, and experimentation has already indicated that it is a natural vehicle for new insect-repellent cosmetics. One of its latest applications is described in a patent for a Zirconium-containing deodorant which employs U.S.P. Glycerine in the carrier-base. This cream is said to be capable of absorbing perspiration odors, to be non-acid in chemical reaction and non-irritating to the skin. Details sent on request.

Nothing takes the place of Glycerine



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"WHY *Glycerine for Drugs and Cosmetics?*" 3 ☐

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Name _____

Title _____

Company _____

Address _____

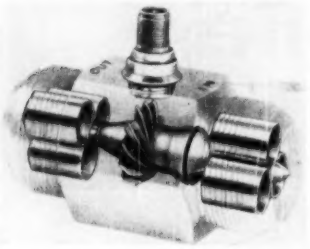
City _____ Zone _____ State _____

NEW EQUIPMENT

Electronic Flowmeter (610A)

New rotor design eliminates thrust in flowmeter sensing element.

The new electronic flowmeter of Potter Aeronautical Co., 87 Academy St., Newark, N. J., incorporates a sensing rotor which spins freely within a venturi. It comprises a flow-sensing unit having a dynamically balanced rotor and magnet rotating within a non-magnetic housing, and an external pick-up coil con-



nected to an electronic integrator or totalizer or both.

The housing of the sensing unit is no larger than the line into which it is installed. Three circular spring clips at each end maintain the guide bearings for the rotor shaft in center. Fluid passing through the housing turns the rotor at a speed determined by velocity of the liquid and pitch of the rotor blades. A cylindrical permanent Alnico magnet within the rotor sets up a rotating field which generates AC current in the pickup coil. Frequency is equal to the speed of the rotor when the magnet is two-pole. A four-pole magnet provides twice this frequency. A single, shielded wire conducts the AC current to an electronic unit which either integrates it into DC current for operating a rate-of-flow meter, or it counts and totals the cycles on an electro-mechanical counter of the Veeder-Root type.

Liquid Mixer (610B)

New mixer mixes liquids or liquids and gases without use of a tank.

Developed by The American Well Works, Aurora, Ill., the American Homomix accomplishes instantaneous, violent, uniform blending of a liquid and one or more chemicals or gases with liquid without the use of a mixing tank.

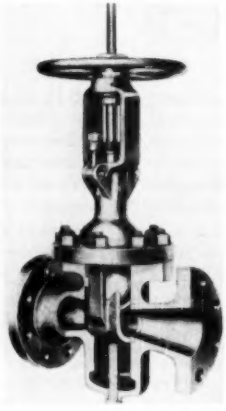
The Homomix is constructed of one or more mixing stages and forms part of the influent piping. Each stage consists of a diffusing impeller rotating in a blending chamber, driven by a continuous shaft direct-connected to the prime mover. Introduction of chemicals to each chamber is made through a tube specially adapted for handling the applied solution. The mixing action is visible through a transparent observation port which may be readily opened for physical examination of the rotating elements. The number of diffusing stages can be selected to comply with the number of chemicals requiring mixing in a particular process.

The chemical solution enters at the eye of the impeller from where it is carried by the vanes and accelerated to a high-velocity and thrown out by centrifugal force into the annular channel, or diffusion casing. The simultaneous circulation of a small portion of the raw liquid with the injected chemical solution provides the volumes necessary to obtain optimum dispersion. The diffusing action of the impeller will effectively disperse gases such as carbon dioxide in the form of minute bubbles instantly and completely throughout the liquid passing through the unit.

Ball Valve (610C)

New valve features straight-line discharge characteristics.

W-K-M Co., Houston, Texas, has developed a new valve for general duty, the W-K-M venturi-ball valve.



It is designed for throttling applications in high pressure, corrosive or erosive applications and features straight line discharge characteristics. Non-turbulent flow is possible over a wide range without destructive erosion or wire drawing.

Wide open flow is unobstructed, non-turbulent with negligible pressure drop. When tightly closed the ball seats tightly regardless of pressure and flow conditions. Line contact between ball and seat assures tight, absolute shutoff. It is self-cleaning and purging due to the venturi design. The ball seats in a different position each time, distributing wear over its entire surface. There are two seats and the valve may be reversed in the line to double its useful life. The valve is available in different materials.

Transfer Pump (610D)

New pump with air line pressure offers a safer way to remove corrosive liquids from stainless steel containers.

Safe and convenient transfer of acids and other liquids from stainless steel containers is now possible with



the GS No. 17 pump of General Scientific Equipment Co., 2700 W. Huntingdon St., Phila. 4, Pa. Liquids come in contact only with the corrosion-resistant tube.

The pump is fitted with a safety valve for air line pressure and a hold down clamp to secure the pump into the container, together with 25 feet ⅜" air hose with male or female coupling and chuck attached. Both lead and Saran plastic tubes are supplied.

Air Cleaner (610E)

New electronic air cleaner utilizes upward or downward flow.

A new Precipitron electronic air cleaner, constructed for upward or downward air flow, is now available from Westinghouse Electric Corp., 200 Readville St., Hyde Park, Boston 36, Mass.

Designed to remove air-borne solids from normal air, the new Precipitron charges the solid particles positively, then passes the air through a set of alternately charged collector plates where the solids are removed by electrostatic attraction.

The new Precipitron is available in capacities of 1200 cfm and up and will remove 90% of all air-borne particles traveling at 333 fpm, and 85% of those traveling at 400 fpm.

The new Precipitron features vertical air flow which permits mounting the unit in a vertical duct to save floor space. The unit frame, with a projected floor area of approximately four square feet for the smallest unit to 16 square feet for the largest unit, serves as a support for air

Beckman pioneers another instrumentation advancement . . .

SINGLE BEAM *direct* Transmittancy *recording* *with* BECKMAN *infrared spectrophotometers*

NEW SINGLE BEAM SYSTEM IS SIMPLE, ACCURATE, RELIABLE

The Beckman Single Beam Direct Transmittancy Recorder employs the memory standardization principle, using reliable electronic circuits instead of complicated mechanical-optical arrangements. It successfully combines the highest accuracy with the utmost in reliability and convenience. A standardizing run is made on the empty or solvent-filled absorption cell. During this run the signal from the photoreceiver is automatically maintained constant, and the resulting slit width vs. wavelength function is "memorized" on a wire recorder. The sample is then placed in the same cell, and information played back from the wire recorder automatically controls the wavelength and slit drive motors to reproduce precisely the conditions which produced the constant 100% reference level. Any absorption resulting from the sample is accurately and automatically recorded directly in transmittancy. On repeat runs, the same reference wire is used, eliminating repetition of standardizing measurements.

Single beam transmittancy recording retains the excellent resolution, low stray light, high stability and drift freedom, and the wavelength accuracy of the well-known Beckman Spectrophotometers. Other advantages are summarized at the right.

THREE UNEXCELLED INSTRUMENTS FOR ANY REQUIREMENT

Beckman Single Beam Direct Transmittancy Recording is available either (1) as an accessory unit for direct installation on any Beckman IR-2 Spectrophotometer, or (2) with the IR-2 as a complete instrument, or (3) in the new unsurpassed Beckman IR-3 Spectrophotometer – the most versatile, most accurate, most complete – and by all standards, the *finest* spectrophotometer money can buy.* For further information on these instruments write . . .

BECKMAN INSTRUMENTS control modern industries

Beckman Instruments, Inc., South Pasadena 17, California

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**As in all Beckman instruments, your money buys more value than in any similar product.*

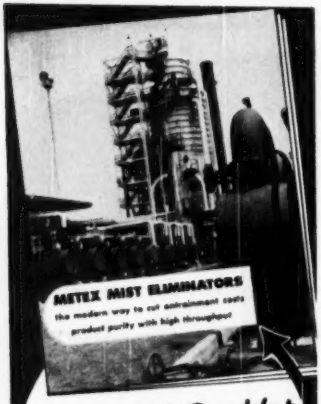
IMPORTANT ADVANTAGES of the Beckman Transmittancy Recorder

- **GREATER CONVENIENCE:** The single-beam principle eliminates troublesome, time-wasting cell- and beam-matching problems.
- **GREATER VERSATILITY:** Greater versatility and simplicity and lower costs are assured, since special cells and attachments need not be duplicated for use in a reference beam.
- **GREATER ACCURACY:** The single-beam principle eliminates problems of making a beam attenuator achromatic, linear and free of vignetting effects.
- **MINIMUM STRAY LIGHT:** Only these single beam instruments use a filter-type beam chopper, reducing stray light effects to a minimum (less than 2% at 15 microns with the IR-2).
- **MINIMUM SCANNING TIME:** Optimum recording efficiency is achieved because each spectral slit width is traversed in a time proportional to the response period of the recording system. Any other scanning rate loses either resolution, time or accuracy.
- **MAXIMUM RESOLUTION:** Slit width control has the advantage that the instrument is always working at maximum resolution for the chosen amplification and scanning speed.
- **FLEXIBILITY OF CONTROL:** Operating speed, resolution and chart scales can be easily varied over wide ranges. A single control adjusts scanning time per spectral slit width from 1 second to 128 seconds by factors of 2. The wavelength motor speed is electronically controlled with no gear shifting needed to change scanning speed.

In addition to recording linearly in wavelength, a unique electronic system enables recordings to be made linearly in other functions such as frequency or log wavelength.



Beckman Instruments include: pH Meters and Electrodes — Spectrophotometers — Radioactivity Meters — Special Instruments



This NEW Booklet can help you cut entrainment costs

Condensed information on the function and applications of Metex Mist Eliminators and economies effected through this modern development in Entrainment Separation.

The effectiveness of Metex Mist Eliminators for liquid-gas separation has been demonstrated by installations of several years standing in many different types of processing equipment. Equally adapted to installations in new or existing equipment—vacuum pipe stills, scrubbing towers, knock-out drums, evaporators and the like—their use has resulted in such marked economies as:

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3. Operation at full capacity without contamination
4. Practical elimination of reruns

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cleaning components as well as a structural casing. With a frame height of only 34½", unused space above and below the unit is used for inspection and servicing access.

• A hydraulically powered **oscillating feeder** has been developed by Proctor & Schwartz, Inc., 7th St. and Tabor Rd., Philadelphia 20, Pa. The purpose of the feed is to distribute evenly and uniformly upon a wide conveyor any loose, flaky or granular material. The hydraulic power gives simple and accurate control of the speed and travel of oscillation. It further permits a smooth reversal at controlled rates.

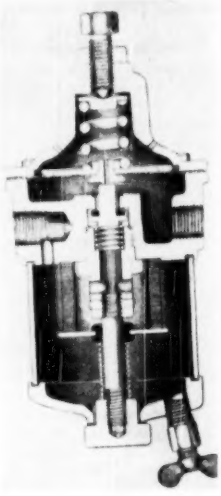
A hopper receives material from the feed chute and deposits it on the oscillating feeding conveyor. The speed of the feed conveyor can be adjusted to change the loading characteristics. The length of the feed conveyor can be supplied to proper feeding. The feed conveyor is mounted on the top of a column, providing it with a fulcrum point and a mount for the oscillating controls quickly adjustable so as to limit the travel to obtain the desired path over the main conveyor. (612A)

• A new 2" **meter** for industrial liquids has been added to the line of Xacto meters of Bowser, Inc., Fort Wayne, Ind. This positive displacement meter has five vertical pistons and gives highly accurate measurement in the 110 gpm range. All interior parts are constructed of either special hard carbon or stainless steel to eliminate metal-to-metal contacts at friction points. The cylinder block and bowl is available in cast iron or bronze. Straight reading, predetermined quantity or ticket printing dials can be supplied. (612B)

• Penn Industrial Instrument Corp., 3116 N. 17th St., Phila. 32, Pa., has introduced a new automatic **flow controller** which provides low maintenance with high accuracy and fast response. Flow rate is measured by the Penn Magna Clutch flow meter which utilizes a frictionless magnetic coupling between the float on one hand and the pen and control mechanism on the other. High accuracy is achieved by the large float and long float travel combined with true frictionless design. To this is added the sensitive pneumatic controller with fully adjustable automatic reset and proportional band adjustable from 0-175%. Low maintenance is achieved by eliminating the stuffing box or pressure tight bearing and by use of "O" ring manometer seals moving part, the float, which can be removed. (612C)

• The Cleveland Vibrator Co., 2864 Clinton Ave., Cleveland, O., has simplified the design of its type "F" air-powered **bin vibrator**. The number of major parts has been reduced to five components, mounting base plate, housing, spring, piston, and head—are shown in a sequence with four longitudinal body bolts and special stop lock nuts. (612D)

• The new airpak of the Conoflow Corp., 2100 Arch St., Philadelphia 3, Pa., is a combination of regulator, **filter**, and dripwell. Constructed entirely of brass and stainless steel,



the new unit provides maximum resistance to corrosive atmospheres. Its capacity averages approximately 25 cfm. A side mounted drain cock permits horizontal as well as vertical mounting without sacrifice of filter area or dripwell volume.

The filter medium is phenolic resin-impregnated cellulose capable of removing oil and water and particles down to 40 microns. Airpak is available in reduced pressure ranges of 0-25, 0-50, 0-125 usig. (612E)

• "Cold rubber" is being used in some of the **conveyor and elevator belts** manufactured by The B. F. Goodrich Co., Akron, O. When properly compounded "cold rubber" should add from 10 to 25% more wear in certain service. (612F)

• The new **electric scale control** of Aqua Electric Scale Control, Inc., 2028 E. 22nd St., Cleveland 15, O., will reduce or prevent hard scale formation in water cooled equipment. Water is passed through an electric field of the proper intensity and the colloidal particles pick up an electrical charge which is adjusted to the electrical conductivity of the water itself. Thus, the particles are no longer attracted to, and do not build up on the metal surfaces which they contact. (612G)



Leading shippers of chemicals everywhere rely with confidence on our modern single and multiple compartment tank cars. That's because they are especially constructed to meet the particular needs of the chemical industry—engineered specifically for hauling chemicals to market safely and economically.

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• Utilizing the strength, lightness and dependability of modern stainless steel, American-LaFrance-Foamite Corp., Elmira, N. Y., has produced a new line of 2½ gal. **fire extinguishers.**

The manufacturers claim the new extinguishers are twice as strong as the old style fabricated copper units and about 50% lighter in weight without the charge. (614A)

• A method of flame spraying **polyethylene coatings** on steel surfaces has been perfected by Houghton Laboratories, Olean, N.Y. The Houghton process uses no solvents and applies coatings in thicknesses from 1/32″ to 1/4″ to greatly improve corrosion resistance. (614B)

• Positive (flow) regulation of processing tanks' contents from a single point of control is provided by the **3-way-valve,** the only 3-Way-Valve with a 2 part plug type key. It is produced by F. H. Langsenkamp Co., 227-235 E. South St., Indianapolis, Ind.

Action starts with movement of control to desired position indicated on valve control quadrant. Handles are then locked in place, effecting complete and positive seal up to 60 psi.

Usually fabricated in pure nickel, nickel alloy or stainless steel, valves can be obtained in any desired metal. Available in 2½″, 3″ and 4″ IPS sizes or sanitary threads. (614C)

• Metalsmiths, Div. of Orange Roller Bearing Co., Inc., 560 White St., Orange, N.J., is fabricating **stainless steel endless belts** for conveyors.

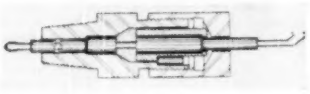
Features offered are any desired width in one piece; invisible welded endless construction; controlled width and camber; surfaces polished to suit needs; doctor blades at head pulley can be used to keep belt clean. (614D)

• Babcock & Wilcox Tube Co., Beaver Falls, Pa., has increased the size range of its **seamless steel tubing.** B&W now can produce seamless hot finished tubing in outside diameters up to 9⅝″ and seamless cold drawn tubing in outside diameters up to 8⅞″. The former maximum OD was 8⅝″. (614E)

• The Cowles Co., Inc., Cayuga N. Y., is producing a new **dissolver,** Model 7VT, which works batches of 5 to 100 gals. ranging in viscosity from 1 to 30,000 centipoises. The entire motor, bridge, and dissolver unit may be adjusted in height through a range of 11″ by an elevating screw, which makes the unit adaptable to containers of varying depth. The bridge support can be tilted through an angle of 60° for quick removal of the impeller from tanks. A five HP, explosion-proof motor is on the bridge. Various types of stainless steel impellers are available.

• Pressure band **pipe couplings,** made by Morris Coupling and Clamp Co., 1233 Beaver Ave., Ellwood City, Pa., are now available for pipe sizes up to 8″ according to an announcement. In addition to the standard zinc coated steel line, all aluminum couplings also are available. (614F)

• A new bare wire **thermocouple gland** is available from the Conax Sales Co., Inc., Kenmore 17, N. Y. It is designed to provide the greater accuracy and quicker response of bare wire thermocouples without the



leakage and expense usually associated with this method of temperature measurement. Sealing the wires by compressing dry powdered talc between two ceramic insulators provides an electric insulation which is virtually unaffected by either temperature or chemical reaction.

The new gland may be used with temperatures from —100° F. to +1600° F. and will withstand pressures up to 4000 psi. It is available in models for standard 20 gage thermocouple wires, 14 gage thermocouple wires and for use with terminal block or conduit. (614G)

• Cohrlastic 3500 **silicone rubber-coated Orlon** is fabricated by The Connecticut Hard Rubber Co., New Haven, Conn. It is impermeable, heat and cold resistant, has good dielectric and high tensile strength, and it is outstanding as a diaphragm material.

Such diaphragms may be flat or convoluted. They are light and strong and operate from —75° F. to 300° F. They are extremely flexible and have a long flex life and are particularly useful where pressure differentials are low and quick response to a slight change is desired. Cohrlastic 3500 can be supplied as a fabric .010″ thick, .017″ thick, or in the form of finished diaphragms. (614H)

• The Cowles Co., Inc., Cayuga, N. Y., has introduced two new hydraulic lift **dissolvers.** Both models are standard dissolvers intended for plant operations where it is faster and more convenient to process materials in tanks brought to the machines. The impeller raises and lowers hydraulically by water pressure so that it clears the top of containers and can be positioned correctly for the maximum effect. (614I)

Sulfides To Your Schedule...

One of the important reasons for the popularity of Hooker as a basic source for Sulfides lies in the Hooker scheduling and delivery policy.

Much time and thought has been given to shipping, and this planning combined with Hooker's location at one of the important rail centers of the nation, enables Hooker to deliver—on schedule—as promised. This permits you to keep your inventory investment to the minimum while at the same time our ample stocks enable you to meet additional requirements without any difficulty.

All Hooker products are noted for their purity and Sulfides are no exception. Sodium Sulfide (Fe 8 ppm Max.), and Sodium Sulfhydrate (Fe 5 ppm Max.) are of uniform quality that eliminates costly variations in quality of the finished product. There are also added savings due to the rapid and complete solubility of these high purity Sulfides. The clean solution can be used without settling or decanting—a worthwhile time saver.

A request on your company letter head will bring samples and Technical Data Sheets.

SODIUM SULFIDE—Na_2S

Mol. Wt. 78.1
M.P. ..... 100°C

Light buff colored solid in flake form. Rapidly soluble in water; slightly soluble in alcohol; insoluble in ether. Also available in solid form.

Analysis

Na_2S	60 to 62%
NaCl	1.5% Max.
Other Na Salts	2.0% Max.
Fe	8 ppm Max.
Cu, Ni, Cr, Mn, Pb	1 ppm Max.
Water of crystallization	35% Min.

Uses

In manufacture of dyestuffs, chemical intermediates, paper pulp, soap and rubber, as an ingredient of dye liquor for textile dyeing; boiling out linen; ore flotation and metal refining; in unhairing hides and wool pulling; desulfurizing viscose rayon.

SHIPPING CONTAINERS

Flake: Steel drums ..... 90 & 350 lbs. net
Solid: Steel drums ..... 625 lbs. net

SODIUM SULFHYDRATE—NaSH

(sodium hydrosulfide)

Mol. Wt. 56.1
M.P. ..... 55°C

Light lemon colored solid in flake form. Completely and rapidly soluble in water, alcohol and ether.

Analysis

NaSH	70 to 72%
Na_2S	2.5% Max.
NaCl	0.8% Max.
Na_2SO_3 and $NaHCO_3$	0.4% Max.
Fe	5 ppm Max.
Cu, Ni, Cr, Mn, Pb	1 ppm Max.
Water of crystallization	28 to 26%

Uses

In preparation of dyestuffs and other organic chemicals such as thioamides, thiourea, thioglycolic acid, thio- and dithio-benzoic acids, sodium thiosulfate; in unhairing hides, in desulfurizing viscose rayon.

SHIPPING CONTAINERS

Lacquer-lined steel drums .. 90, 350 lbs. net

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PACKAGING & SHIPPING

by T. PAT CALLAHAN

Unexplored Potential in Air Freight

A recent article in the U. S. Department of Commerce publication, *Containers and Packaging Industry Report*, outlines the possibilities of air freight and the packaging problems it entails. Although some of the more hazardous chemicals are presently restricted from air transportation or allowed only to a limited degree, it seems probable that air transportation will play a greater role in shipping chemicals.

In the article entitled "Air Freight —A Packaging Challenge", the term "air freight" applies to cargo that is neither air express nor air parcel post. It is a new basic method of shipping designed to move merchandise at air speed in a regular flow on a volume basis. Merchandise moves on an airport-to-airport basis. Air freight industry is still too new for all of its potentialities to have been explored, but additional uses and advantages are turning up from day to day. It has two distinguishing features for the shipper: speed and specialized service.

Although interest among the container manufacturers is increasing, research in this field by progressive container producers has hardly begun, principally because air transportation has not yet represented a sufficient volume to justify extensive expenditures for research and development. Therefore, it remains for the airlines themselves to take the lead in working with the shippers and the container manufacturers in developing suitable packaging.

A wide variety of cargo can be shipped by air. Some commodities, however, will not be accepted for carriage by air while others are prohibited, due to the nature of the product itself, unless special packaging is provided and clearance for air shipment is obtained. In these categories are such items as explosives, inflammables, acids, radium, radioactive or magnetic materials, small-arms and ammunition, and other items which are considered hazardous.

According to recommendations of the working group on Civil Transport Aircraft Prototype, Civil Transport Aircraft Evaluation and Development Board, the type of aircraft most needed to develop air cargo is a long-haul air freighter capable of carrying a minimum of 15 tons of payload for a nonstop flight of 2,000 miles at an average speed from start to stop of 300 miles an hour. This plane should be able to operate from a 4,000 foot airfield to permit using relatively small airports. It should also have a cargo floor at truck bed height to expedite loading and unloading. The estimated direct operating cost of this freighter is 3.75 cents per ton mile. New planes, specifically designed to haul commercial cargo, will aid in the achievement of superior performance at lower operating cost.

Bibliography Published On Container Coatings

A new bibliography on container coatings has been published by the Office of Technical Services of the U. S. Department of Commerce. This bibliography, prepared by the Army Quartermaster Technical Library in Philadelphia, provides abstracts of some 150 patents and research papers on food and other types of container coatings, published since 1941. Author, inventor and patent indexes are included. This bibliography may be ordered from OTS, Washington 25, D. C., and is Order PB 100 864, price $1.25.

Conveyor Designed for Valve Bag Packer

(616A)

A new motor driven conveyor especially designed to operate in connection with valve bag packers has been developed by the Flexoveyor Manufacturing Co., 1220 S. Acoma St., Denver, Colo. A series of endless spring belts running over



grooved rolls forms the conveying element which is reversible. Any loose material collecting on the outside of the bag or around the packer drops through the springs and onto the floor where it can be cleaned out at regular intervals.

It avoids the difficulty of material building up on belts and bags stalling. The fluttering action of the springs make them self cleaning. Only 7" of headroom is required making it possible to install the unit close to the floor or leave sufficient room to telescope a carloading conveyor underneath. It can be designed for special conditions.

Packaging Group to Study Parenteral Closures

A new committee has been formed in the Materials Division of the Packaging Institute to study problems of parenteral closures. It plans to hold meetings of interested users with the institute alone, and later on with stopper manufacturers, to try to solve mutual problems by joint effort and cooperation with suppliers.

Chairman of the Parenteral Closure Committee is J. A. Elder, Merck and Co. Other members are C. B. Burnside, Eli Lilly & Co.; P. Van Gieson, Lederle Laboratories, and D. Seif, E. R. Squibb & Sons.

Information Service on Packaging Machinery

A Packaging Machinery Information Service has been established by the Packaging Machinery Manufacturers Institute, at its new office headquarters at 342 Madison Ave., New York.

A clearing house of information on all types of packaging machinery has been maintained by the institute for a number of years for the use of its members and for the general public, both domestic and foreign. The new office will permit its expanding this reference service and provide filing space for a large supply of literature on packaging machinery and related subjects.

A semi-monthly bulletin service on packaging machinery requirements, is a feature of the institute's service to members.

Standards Developed for Industrial Trucks

Users of industrial power trucks can now benefit from the safe practices in design and use of such equipment that have been established by a nationwide agreement among users, safety engineers, and manufacturers. The recommendations, representing a consensus of all who are substantially concerned, have been published as a Safety Code for Industrial Power Trucks and approved by the American Standards Association as American Standard (B56.1—1950). This 32-page bulletin is available at 85 cents either from the ASA, 70 E. 45th St., New York 17, N. Y., or the American Society of Mechanical Engineers, 29 W. 39th St., New York, N. Y.

Of particular interest to users are the sections outlining general safety

Announcing:

PITTSBURGH PX PLASTICIZERS

a new wide range line

from a single producer

Pittsburgh Coke & Chemical Company is now producing ten quality-controlled Pittsburgh PX Plasticizers—providing the plastics, rubber, and protective coatings industries with a new, reliable source of supply.

The objective of the Plasticizer Division is to make available from one integrated source of supply a line of highest quality plasticizers in sufficient variation of type to fill virtually every need. Pittsburgh Coke & Chemical Company's integrated operations, from the mining of coal to the purification of the finished plasticizer, permit quality control of all manufacturing steps. The Company's position as a raw material producer gives maximum assurance of continuity of supply.

Established evaluation facilities provide our customers with excellent technical service, while continuing research will provide new and improved products for the future.

Descriptive literature on Pittsburgh PX Plasticizers is available upon request. Please address your inquiries to:

Pittsburgh PX Plasticizers

- PX-104 DiButyl Phthalate
- PX-108 DiIsoOctyl Phthalate
- PX-138 DiOctyl Phthalate
- PX-238 DiIsoOctyl Adipate
- PX-239 DiHexyl Adipate
- PX-404 DiButyl Sebacate
- PX-408 DiIsoOctyl Sebacate
- PX-650 TetraHydroFurfuryl Oleate
- PX-816 TriPhenyl Phosphate
- PX-917 TriCresyl Phosphate

Check the above list for your needs—then write today for individual bulletins which give full commercial and technical information about each of the Pittsburgh PX Plasticizers.



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regulations, such as qualification and training of operators, battery charging and changing facilities, marking of aisles, lighting of operating areas, as well as specific safety rules and regulations that have been adopted in part or in full in many industrial plants and warehouses.

Portable Nailer (618A)

A new foot-operated automatically fed portable nailer has been developed by the Heller Co., 2153 Superior Ave., Cleveland 14, O. Said to be five times faster than ordinary nailing, the new machine drives through light metal, prestwood, into hard or soft wood. The feeding chamber



holds over a hundred Lock nails that come adhered together in one long strip for fast loading. No skill or experience is needed to operate the nailer, and the worker easily develops speed and accuracy.

The longest Heller Lock nail (they range in size from 3/8" to 13/16" long, are spear-pointed) is driven and countersunk with one touch of the pedal. The nailer has a two-way adjustable table to handle a large variety of work.

H_2SO_4, Poisons Covered in ICC Regulations Changes

Fundamental changes in the section on sulfuric acid and a clarification of the definition of Class B Poisons are the most significant amendments to the Interstate Commerce Commission Regulations that went into effect August 29, 1950. The following amendments cover these and other changes of interest to the chemical industry contained in this latest revision:

Section 72.5 List of Explosives and Other Dangerous Articles, was amended as is shown in the following table:

Article	Classed as	Exemptions and packing (Section references to Part 73 (formerly Part 3))	Label required if not exempt	Maximum quantity in one outside container by rail express
(Add) Dichlorodifluoromethane and difluoroethane mixture (*constant boiling mixture*)	Noninf. G.	302, 303	Green	300 pounds
Flame retardant compound, liquid	Cor. L.	244, 280	White	10 gallons
Sodium chlorite solution (not exceeding 40% sodium chlorite)	Cor. L.	244, 263	White	4 gallons
Sodium, metallic, dispersion in organic solvent	Inf. S.	No exemption 217	Yellow	10 pounds

This amendment provides for shipment of new products.

Section 73.154 has been amended by addition of the following:

(zz) Sodium, metallic, dispersion in organic solvent.

Here too, this addition covers a new material.

Section 73.158(b) has been amended as follows:

(b) Spec. 15A or 15B.—Wooden boxes, with inside fiber containers securely closed by taping or gluing, not over 1 pound capacity each. Each inside container surrounded by asbestos or fire-resistant cushioning material which will protect contents with equal efficiency; net weight in outside container must not exceed 50 pounds.

This amendment provides for use of cushioning materials other than asbestos which tests have shown are satisfactory.

Section 73.190(b)(7) has been amended as follows:

(b)(7) Spec. 103 or 103W.—Tank cars, without bottom discharge oulet and with approved dome fittings, external heater systems, and with insulation at least 4 inches in thickness, except that thickness of insulation may be reduced to 2 inches over external heater coils. The material must be immersed in water and must be loaded at a temperature not exceeding 140° F. and then cooled until the water has a temperature not exceeding 105° F. before car is offered to carrier. The water must be loaded in the dome to not more than 50 per cent of the capacity of the dome.

This amendment clarifies the previous regulation and permits thickness of insulation of 2" over external heater coils. This refers to the shipment of phosphorus, white or yellow in specification 103 or 103W tank cars.

Section 73.207(e) has been amended to read as follows:

(e) Sodium sulfide containing 35 per cent or more combined water by weight, fused or concentrated but not ground (may be chipped, flaked, or broken), is exempt from specification packaging and labeling requirements, when packed in steel barrels or drums that are equipped with moisture-tight closure.

Here again, the amendment clarifies the original section, which read: With closures treated to prevent the entrance of moisture in quantities sufficient to create a hazardous condition in transportation.

Section 73.217 has been added as follows:

73.217 Sodium, metallic, dispersion in organic solvent.

(a) Sodium, metallic, dispersion in organic solvent must be packed in specification containers as follows:

(1) Spec. 15A.—Wooden boxes with inside containers which must be metal cans not exceeding one quart capacity, and each such can must be packed in another metal can and cushioned on all sides with at least one inch of soda ash. Both the inner and outer metal can shall be equipped with an airtight closing device secured by positive means (not friction). Gross weight of completed package must not exceed 100 pounds.

This new section provides for shipment of this new material.

Section 73.263 has been amended as follows:

73.263 Hydrochloric (muriatic) acid, hydrochloric acid mixtures, and sodium chlorite solution. (a)(1) Hydrochloric (muriatic) acid, hydrochloric acid mixtures, and sodium chlorite solution not exceeding 40 per cent sodium chlorite must be packed in specification containers as follows:

This amendment provides for the shipment of sodium chlorite solution not exceeding 40 per cent sodium chlorite, which had not heretofore been covered by the regulations.

Section 73.263(a)(10) has been amended as follows:

(a)(10) Spec. MC310.—Tank motor vehicles, lined with rubber or equally acid-resistant material of equivalent strength and durability.

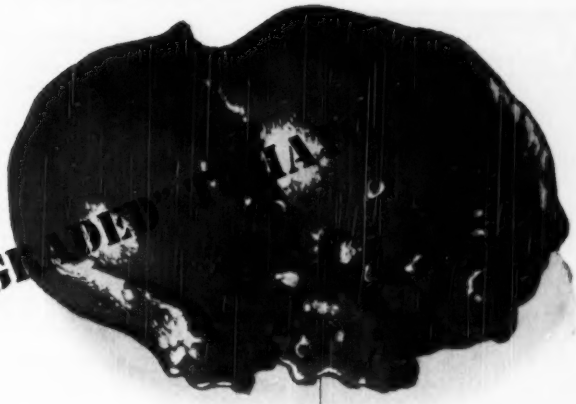
This amendment permits use of materials other than rubber for the shipment of hydrochloric acid, hydrochloric acid mixtures, and sodium chlorite solutions not exceeding 40 per cent sodium chlorite.

Section 73.272 has been amended as follows:

73.272 Sulfuric acid. (a) Sulfuric acid (oleum, oil of vitriol, etc.) must be packed in specification containers as follows:

(b) Sulfuric acid solutions of not over 25 per cent concentrations, in inside containers of not more than 8 ounces capacity each, resistant to the lading, packed in strong outside containers and cushioned with absorbent material in sufficient quantity to completely absorb liquid contents in event of breakage, are exempt from specification packaging, marking and labeling

THE CASE OF THE "DEGRADED" TOMATO



. . and how Fine Chemicals now keep them in "Extra Fancy" shape



Often a small investment in Mallinckrodt Fine Chemicals can substantially increase product quality and profit. For instance: to merit "Extra Fancy" grade and prices, canned tomatoes must be *firm*. But tomatoes red-ripe when picked soon "degrade" when processed due to the softening action brought about by their natural enzymes and by heating.

Canners learned they could prevent the profit-stealing effects of enzyme action and heating by adding a trace of calcium salt . . . but they needed Calcium Chloride pure enough for food use. Mallinckrodt research developed the product—refined to remove harmful impurities such as arsenic and lead. Today the canners produce a greater proportion of premium quality grades at only a nominal increase in cost.

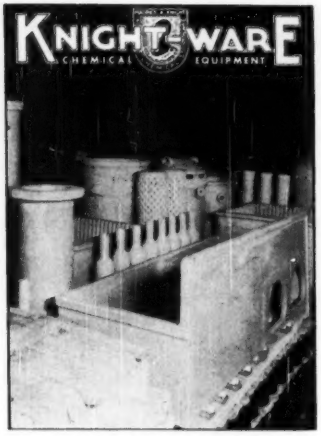
Mallinckrodt Research has helped scores of other progressive industries increase quality and profits by developing new applications or entirely new products. Mallinckrodt's fine chemical experience may prove to be valuable to you, too. It pays to find out.

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Section of kiln before firing

CORROSION PROOF
in any form

Knight-Ware, a quality ceramic, is corrosion-proof throughout its entire body and can be made in almost any design at relatively low cost. For example: Among the pieces shown in the kiln (above) are ducking rolls for carrying strip steel in and out of acid baths, tanks and filters for handling drugs and fine chemicals, and an unusually large one-piece laboratory sink.

Besides special designs, Knight-Ware is also made in a wide selection of standard types, such as:

Suction Filters
Drain Lines
Fume Ducts
Tower Packings
Plug Cocks

Tanks	Jars
Kettles	Towers
Sumps	Sinks

When writing for information on Knight-Ware, please mention type of equipment needed and service conditions involved.

MAURICE A. KNIGHT
210 Kelly Ave., Akron 9, O.
Acid and Alkali-proof Chemical Equipment

requirements for transportation by rail freight, rail express or highway. When for transportation by carrier by water they are exempt from specification packaging and labeling requirements and marking, other than name of contents.

(c) For sulfuric acid of any conc.:

(1) Spec. 15A, 15B, 15C, 16A, or 19A.—Wooden boxes with glass or earthenware inside containers, not over one gallon capacity each, except that such containers up to three gallons capacity may be used when only one such container is packed in each outside wooden box.

(2) Spec. 31.—Jugs in tubs.

(3) Spec. 11A or 11B.—Wooden barrels or kegs with glass or earthenware inside containers not over 2 gallons capacity each.

(4) Spec. 1X.—Boxed carboys of 5 to 6 gallons capacity; single-trip for export only. For shipment via common carrier by water to non-contiguous territories or possessions of the United States and foreign countries; shipments from inland points in the United States which are consigned to such destinations are authorized to be transported to ship side by rail freight in carload lots only and by motor vehicle in truckloads lots only.

(d) For sulfuric acid of concentrations not less than 100 per cent and not more than 115 per cent (approximate):

(1) Spec. 5C.—Metal barrels or drums of Type 304, 316, or 347 stainless steel or other types of stainless steel of equivalent corrosion resistance and physical properties.

(e) For sulfuric acid of concentrations not to exceed 100.5 per cent:

(1) Spec. 1A or 1C.—Carboys in boxes or kegs.

(2) Spec. 1D.—Boxed glass carboys of not over 6.5 gallons nominal capacity.

(f) For sulfuric acid of concentrations not to exceed 93.2 per cent (approximately 1.835 specific gravity) (66° Baume):

(1) Spec. 5H.—Metal barrels or drums.

(g) For sulfuric acid of concentrations 77.5 per cent (approximately 1.7019 specific gravity (59.8 Baume) or greater concentrations with or without an inhibitor, provided such acid has a corrosive effect on steel measured at 100° F. no greater than 66° Baume commercial sulfuric acid:

(1) Spec. 5A.—Metal barrels or drums.

(2) Spec. 17F.—Metal barrels or drums (single trip only). Drums equipped with vented closures of an experimental type approved by the Bureau of Explosives are also authorized for export shipments.

(h) For sulfuric acid of concentrations 65.25 per cent (approximately 1.559 specific gravity) (52° Baume) or greater concentrations, provided the corrosive effect on steel measured at 100° F. is not greater than that of 52° Baume commercial sulfuric acid:

(1) Spec. 60—Portable tank.

(2) Spec. MC 310.—Tank motor vehicle.

(3) Spec. 103A or 103A-W.—Tank cars.

(i) For sulfuric acid of concentrations not to exceed 51 per cent (approximately 1.408 specific gravity) (42° Baume):

(1) Spec. 5D.—Rubber-lined metal drums.

(2) Spec. 60.—Portable tanks (rubber-lined).

(3) Spec. MC 310.—Tank motor vehicles (rubber-lined).

(4) Spec. 103B or 103B-W.—Tank cars.

(j) Gaskets must be in a plastic condition when applied to carboys in boxes, barrels or kegs containing water-white sulfuric acid (electrolyte grade) of concentrations 77.5 per cent (approximately 1.7019 specific gravity) (59.8° Baume).

(k) Soft rubber gaskets are authorized on carboys in boxes, barrels or kegs containing sulfuric acid of not over 51 per cent concentrations (approximately 1.408 specific gravity) (42° Baume).

(l) Because of the present emergency and until further order of the Commission, sulfuric acid may be offered in transportation by carriers by water in conformity with Regulations for Explosives or Other Dangerous Articles on Board Vessels, Sec. 146.23-10, issued by the Commandant of the Coast Guard.

This amendment clarifies existing specifications for packing of sulfuric acid. It also adds (d)(1) for sulfuric acid of concentrations not less than 100 per cent and not more than 115 per cent (approximate), approving specification ICC 5C Metal barrels or drums of type 304, 316, or 347 stainless steel or other types of stainless steel of equivalent corrosion resistance and physical properties.

Section 73.273 has been amended by the addition of new paragraph (d) permitting specification ICC 17F metal drums (single-trip) for the shipment of sulfur trioxide, stabilized.

Section 73.280 has been added to provide for the shipment of flame retardant compound, liquid. Reference to ICC Regulations should be made by anyone who wishes to ship this material.

Section 73.303 has been amended in order to provide for the transportation of dichlorodifluoromethane and difluoroethane mixtures in ICC specification cylinders.

A new paragraph (m)(4) has been added to section 303 to provide additional small single-trip containers for shipment of refrigerant gases. Reference to the regulations is necessary by anyone contemplating movement of such gases.

Note 8 to paragraph (q)(1) of section 73.303 has been amended to read as follows:

Note 8: For tank cars of other than ICC 106A type, used for shipping chlorine, tests prescribed in paragraph 15 of spec. 105A300 must be made at intervals of 2 years or less and interior pipes of liquid discharge valves must be equipped with check valves of approved design.

The reason for this amendment is to eliminate emergency extension of retest period for certain cars used in the chlorine service.

*(The amendments to the ICC Rules and Regulations will be continued in a subsequent issue.—*EDITOR.)



yourself these questions

✓ what makes red oil RED ?

The answer is color bodies and other impurities which are not removed from the fatty acids by the usual processes such as distillation and filtration. These impurities not only make the Red Oil red, but they give it the strong odor usually associated with this product. In addition, these impurities make the Red Oil unstable in color when heated in processes such as esterification and saponification.

All grades of W. C. Hardesty Co., Inc., distilled Red Oil have these impurities removed in their *regular plant processing*. Our regular Red Oils are not red but amber in color with a very bland odor and maximum stability to withstand high temperatures without discoloration or oxidation. Our best salesman is a sample. Send for yours today, and compare the color with any other commercial Red Oil.

1005 Low Titre Redolene . . Distilled Oleic
3-5°C Titre

1010 Redolene . . . . . Distilled Oleic
8-10°C Titre

For especially light colored products, we recommend the use of our White Oleic Acid, which is in a color class by itself.

1020 Crystolene (White Oleic Acid)
6-8°C Titre

✓ is distillation of stearic acid enough ?

Since the beginning of the fatty acid industry, producers have relied upon distillation as the means of purifying fatty acids for the production of Stearic Acid.

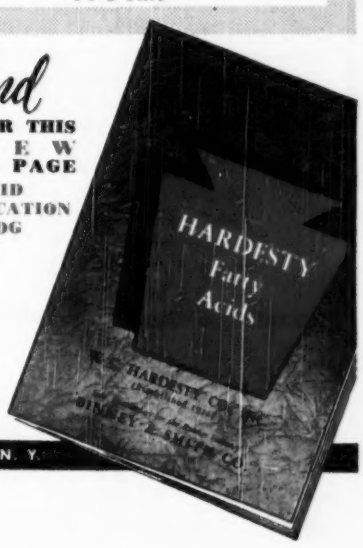
Distillation is not enough to remove the impurities from the fatty acids. The average commercial Stearic Acid shows this by its relatively dark color, and poor odor and color stability when it is used in making esters and high grade cosmetic soaps and creams.

The W. C. Hardesty Co., Inc., chemists have developed methods of purification of the fatty acids for Stearic Acid production which go far beyond distillation and the purity is guarded through each step in the process of manufacture. This accounts for the excellent color and odor of our Stearic Acids and for the stability of the color and odor when the Stearic Acids are processed in customers' plants.

To produce highest quality esters, soaps and cosmetic preparations, use our Stearic Acids . . . generous testing samples will show you why.

1210 Single Pressed Stearic Acid
1220 Double Pressed Stearic Acid
1230 Triple Pressed Stearic Acid
1240 Supra Grade Stearic Acid

Send FOR THIS NEW 24 PAGE FATTY ACID SPECIFICATION CATALOG



W. C. HARDESTY CO., INC.
HARDESTY PRODUCTS ARE INDUSTRY'S KEYSTONE
ESTABLISHED 1926

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FACTORIES: DOVER, OHIO
LOS ANGELES, CALIF. TORONTO, CAN.

STAUFFER ANNOUNCES

ethylene trithiocarbonate

STAUFFER CHEMICAL COMPANY ANNOUNCES THE AVAILABILITY OF ETHYLENE TRITHIOCARBONATE

(1, 3 dithiolane 2 thione)
(dihydro 1, 3 dithiol 2 thione)

Ethylene trithiocarbonate is a bright yellow to brown crystalline solid depending on the crystal size. It has substantially no odor when pure, but the technical grade may contain traces of mercaptans and other sulphur compounds.

It is suggested for use as a flotation agent, a sulphur solvent, as an intermediate in the manufacture of organic chemicals, and as an ingredient of extreme pressure lubricants. Ethylene trithiocarbonate contains over 70% sulphur and may have value in the vulcanization of rubber. In agriculture there are indications that this product can be used as an aphicide, and scalicide, and perhaps as an intermediate in the manufacture of economic poisons.

Empirical Formula: $C_3H_4S_3$
Molecular Weight: 136.3
Structural Formula:



PHYSICAL PROPERTIES

Empirical Formula	$C_3H_4S_3$
Molecular Weight	136.3
Melting Point	34.5-35.0° C.
Boiling Point	117-118° C. (0.6 mm)
Pounds per gallon (Solid)	13
Flash Point (Tag closed cup)	165.5° C.
Specific Gravity	1.48
Refractive Index, N^{20} (extrapolated)	1.73

Solubility

Soluble: chloroform, ethylacetate, acetone, ethyl ether, benzene, nitromethane.

Slightly Soluble: glacial acetic acid, carbon tetrachloride, ethanol.

Insoluble: water, petroleum ether.

REACTIONS

Hydrolysis: Ethylene trithiocarbonate can be hydrolyzed to dithio ethylene glycol (ethylene dithiol) by reacting with ethanolic potassium hydroxide.

Oxidation: Ethylene trithiocarbonate is said to be oxidizable to ethylene dithiocarbonate.

Chlorination: Ethylene trithiocarbonate can be chlorinated readily. It is probable that the chlorine replaces the thione sulfur and one of the hydrogen atoms.

AVAILABILITY

Inquiries for samples, further data, etc., are invited. Sample quantities of one-quarter pound are available without charge, and additional quantities are available for cooperative evaluation research projects.

Stauffer CHEMICAL COMPANY

420 Lexington Avenue, New York 17, N. Y. • 221 North LaSalle Street, Chicago 1, Illinois • 824 Wilshire Blvd., Los Angeles 14, California • 636 California Street, San Francisco 8, California • 424 Ohio Bldg., Akron 8, Ohio • Apopka, Florida • North Portland, Oregon • Houston 2, Texas • Weslaco, Texas

NEWS OF THE MONTH

New Construction

• **Acrylonitrile** and related chemicals made directly from acetylene by a new process will be the products of a $30 million expansion at Monsanto Chemical Co.'s Texas City, Tex., plant. Monsanto, which has not previously produced the material, has a special interest in acrylonitrile, for the experimental fiber of Chemstrand Corp., American Viscose-Monsanto subsidiary, is reportedly a copolymer containing 85% acrylonitrile. American Cyanamid Co. has been the only acrylonitrile producer, making it from ethylene oxide and hydrogen cyanide. Other uses of the material are for plastics, Buna-N rubber.

The new facilities, to be built at the styrene manufacturing location, will double the size of the present plant. Construction will begin immediately.

• **Expansion continues to be the word** from Du Pont on nylon. Over 100,000 sq. ft. of floor space will be added to its Martinsville, Va., plant, virtually doubled in 1945-46, to increase size of the spinning, textile, inspection and shipping areas. The company has also taken an option on a 635-acre tract near Kinston, N. C., for its fourth nylon yarn plant. The plant will employ 1,200 people, will take 18 months to complete after construction gets under way.

• **Two new plants** for Permalite, lightweight plaster aggregate, are planned by licensees of Great Lakes Carbon Corp. Perlite Products Corp. will build one in Dallas, Tex.; Virginia Perlite Co., in Hopewell, Va.

• **A three-story process building** and a warehouse comprise a new polyvinyl chloride resin plant to go under construction immediately at B. F. Goodrich Chemical Co.'s growing Avon Lake, O., general chemicals plant. To be completed in mid-1951, the plant will cover seven acres. Girdler Co. is handling engineering and process construction.

• **National Aluminate Corp.'s** Chicago plant is being expanded to house additional drying equipment.

• **Bjorksten Research Laboratories, Inc.,** has bought a 168-acre tract outside Madison, Wis., will erect buildings for new testing units, equipment and laboratories.

• **Two adjoining buildings** for warehouse and sales office space in Atlanta, Ga., will be built by Minnesota Mining & Manufacturing Co. They are expected to be ready for January occupancy.





Francis E. Murphy (left), appointed production supervisor of the Wyandotte works, Pennsylvania Salt Manufacturing Co.; and J. Scott Brown, named chief engineer for the Naugatuck Chemical Division, United States Rubber Co. Mr. Brown will supervise engineering operations in the synthetic rubber plants at Naugatuck, Port Neches, and Borger.

• **A $2¼-million air-conditioned laboratory** will be built by the Continental Oil Co. at its Ponca City, Okla., plant. It will feature an unusual arrangement of completely concealed air-conditioning duct work and laboratory utility lines in common chases. Wigton-Abbott Corp., Plainfield, N. J., has been awarded the contract for its design and construction.

• **The recently completed liquid resin plant** of Catalin Corp. at Calumet City, Ill., will be expanded by two additional processing kettles and necessary auxiliaries. Blaw-Knox Co. will handle design and construction.

• **Du Pont expects** new units for tetraethyl lead antiknock compounds, now approaching completion at its Chambers Works, Deepwater Point, N. J., to be in production before the end of the year. They will raise TEL capacity at that location by one-third.

• **The nation's largest** and most powerful research reactor has begun operating at Brookhaven National Laboratory, Upton, N. Y., nuclear research center supported by the Atomic Energy Commission.

• **Completing construction** on a new $5 million solvent extraction unit at Decatur, Ill., A. E. Staley Manufacturing Co. now has the greatest soybean processing capacity there of any single plant in the world.

• The **Detroit plant and storage facilities** of Quaker Chemical Products Corp., are being enlarged fifty per cent.

• **The world's largest "cat cracker"** will be built by the Gulf Oil Corp. at Port Arthur, Tex. The 60,000-barrels-per-day fluid catalytic cracking unit will be erected there at the company's refinery, will have an output of 20% greater value than that of any similar installation now in operation or under construction. The M. W. Kellogg Co. has been awarded the construction contract. Completion is scheduled for the late summer or early fall of 1951. Cost will be about $8 million.

New Company

• **Four outstanding industrialists and scientists** have aided in organizing a new mutual fund, Growth Companies, Inc., Philadelphia, which will invest in common stocks of companies believed to possess extraordinary growth possibilities. They are Roger Adams, ex-president of the American Chemical Society and president of the American Association for the Advancement of Science; Clyde E. Williams, director of Battelle Memorial Institute; Zay Jeffries, ex-vice president of General Electric Co., and Bayard D. Kunkle, retired General Motors vice president.

Washington

• **Economic Cooperation Administration** hopes to earmark $138 million this fiscal for critical metals and minerals stockpiling. This is about double last year's program.

• **In view of the large surplus** of animal fats, the Government is making a survey to determine the direction of future research on animal fats. John W. McCutcheon, New York consultant, has been given a contract for the survey.

• **Re-activation and operation** of the Government-owned synthetic rubber plant at Louisville, Ky., will be carried out under Reconstruction Finance Corp. contract by Kentucky Synthetic Rubber Corp., a company formed by 10 rubber companies. They are: American Hard Rubber Co., Boston Woven Hose & Rubber Co., Brown Rubber Co., Dryden Rubber Division of Sheller Manufacturing Co., Goodall Rubber Co., Hewitt-Robbins, Inc., Raybestos-Manhattan, Inc., Simplex Wire & Cable Co., Sponge Rubber Products Co., and Thiokol Corp.

• **An increase of 80,000 tons** above the present goal of 600,000 tons of synthetic has been ordered by the White House, and as part of the effort to meet it, one unit in each of the Government's alcohol-butadiene plants at Kobuta, Pa. and Louisville, Ky., is being reactivated.

• **More on synthetic rubber:** the $22 million-government-owned synthetic rubber plant at Torrence, Cal. (annual capacity over 60,000 tons of butadiene rubber) will be re-activated and operated by Minnesota Mining & Manufacturing Co. and Pacific Rubber Co.

General

• **"The South Amboy Port Explosion"** is the title of a report just published by The National Board of Fire Underwriters, New York, N. Y., and the Fire Insurance Rating Organization of New Jersey, Newark, N. J. It discusses possible causes of the catastrophe and suggests a number of safety measures.

• **First postwar edition** of the Market Guide for the Philippines has just been published by American Foreign Credit Underwriters Corp., New York, N. Y. More than 2,500 leading commercial and industrial firms are listed, with credit and capital ratings.

• **The National Committee for the USA** for the Third World Petroleum Congress Meeting in The Hague, May 28 - June 6, 1951, has been organized with E. V. Murphree, Standard Oil Development Co., N. Y., as chairman and K. G. Mackenzie, The Texas Co., N. Y., as secretary.

• **The following chemicals** are wanted by Armour Research Foundation, 35 West 33rd St., Chicago 16, Ill.:

Strontium tartrate tetrahydrate
Aluminum triethyl
2-Carboxy-5-n-butyl pyridine
1,3-Dimethyl imidazole
1,5-Dimethyl iminazole
D- or L-Ethyl lactate
1-Methyl-5-cyanomethyl imidazole
Tetramethylhydrazine
3-Hydroxy-N-methylmorphinan
1-(p-Methoxyphenyl)-1,2-epoxypropane
N,N-Dimethylthioacetamide
4-Amino-2-carboxy-1-N-phenyl-4-amino-4'-oxy-1,1'-diphenylmethane
2-Amino-5-nitrothiazole
2-n-Butyl hydroquinone
Triethoxychlorosilane
Carvacrol, pure
Emodin
Fraserin
Phytolaccinum

• **The Air Pollution and Smoke Prevention Association of America** has been reorganized to expand the scope of its activities in stimulating development of ways and means for solving the growing problem of air pollution. Individual, company and sustaining memberships are available. There are also honorary memberships for people eminent in the field of air pollution control.

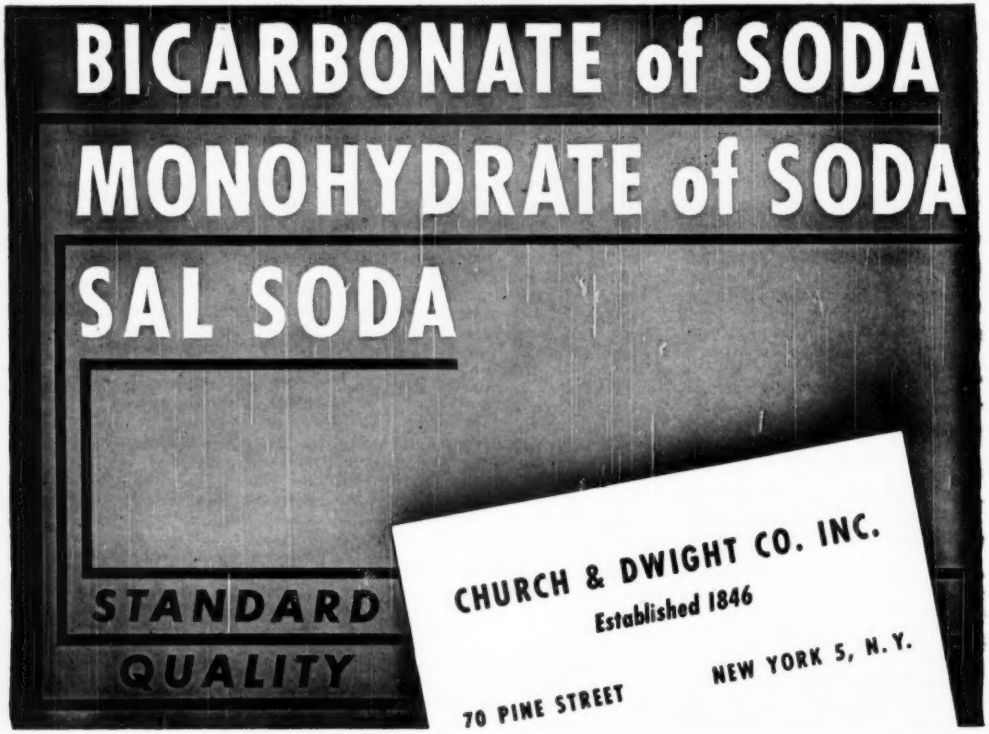
• **A subject index** to technological documents issued in Vol. 12 of the "Bibliography of Technical Reports" is now available at $1 a copy from the Office of Technical Services, U. S. Dept. of Commerce, Washington 25, D. C.

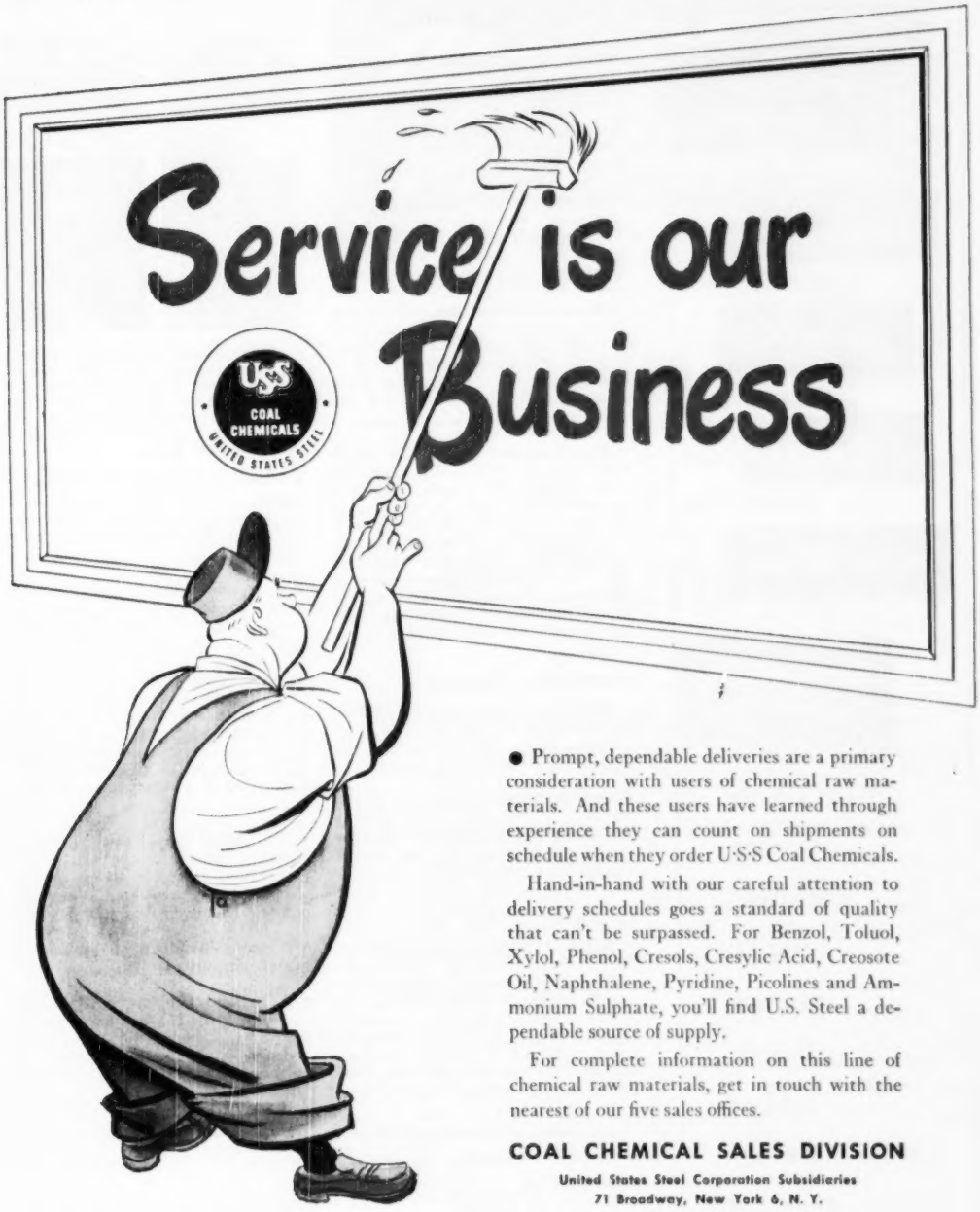
• **The Office of Basic Instrumentation** has been established at the National Bureau of Standards to coordinate a program of evaluation and improvement of instruments for measuring basic physical quantities.

Foreign Developments

• **India's caustic soda capacity** has been increased 20 per cent by a new caustic soda and chlorine plant, known as D.C.M. Chemical Works, built at Delhi for Delhi Cloth & General Mills, Ltd. by the H. K. Ferguson Co., New York. Annual capacity is 2100 tons of caustic.

• **The continuous spinning process** for rayon yarn production which has been licensed from its developer, In-





● Prompt, dependable deliveries are a primary consideration with users of chemical raw materials. And these users have learned through experience they can count on shipments on schedule when they order U·S·S Coal Chemicals.

Hand-in-hand with our careful attention to delivery schedules goes a standard of quality that can't be surpassed. For Benzol, Toluol, Xylol, Phenol, Cresols, Cresylic Acid, Creosote Oil, Naphthalene, Pyridine, Picolines and Ammonium Sulphate, you'll find U.S. Steel a dependable source of supply.

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SINDAR Corporation

Industrial Aromatics and Chemicals

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dustrial Rayon Corp., has been installed in a new factory at Nijmegen, The Netherlands.

• **In an effort to reduce** her dependence on dollar sources for sulfur, nearly all of which is imported from the United States, Great Britain is exploring the possibility of obtaining sulfur from hydrogen sulfide produced by biological action of sulfate-reducing bacteria such as are frequently found in stagnant lakes.

• **A sixth Cellophane casting machine,** part of a $1.5 million program that will up production of transparent film there 25 per cent, will be installed at the Shawingian Falls, Que., Consolidated Works of Canadian Industries, Ltd.

• **Pan-European Industrial Plant Co.,** Paris, has built a demonstration near Rouen, France, for synthesis gas production based on the process developed by Schmalfeldt for gasifying coal dust. Various lignites and coal are to be tested. The company has signed an agreement with Chemical Construction Corp., of New York, for its gasification process for fuel oil gasification only.

Ownership Changes

• **Will Corp.** has acquired its fifth division with the purchase of E. J. Callahan & Co., Baltimore, and will operate it as Will Corp. of Md.

• **Quimby Pump Division** of H. K. Porter Co., Inc., has been sold to Warren Steam Pump Co., Inc. Porter is withdrawing from the manufacture of screw pumps.

Company Notes

• **Sales of products** manufactured by General Aniline & Film Corp., will now be handled by one organization, General Dyestuff Corp., to which sales of detergents, emulsifiers and chemical specialties, formerly handled by GAF's Antara Products Division, have been transferred. General Dyestuff now consists of a Dyestuff Division, which will sell dyestuffs and textile auxiliaries, and an Antara Products Division handling the non-dyestuff products.





E. E. McSweeney (left), with Battelle Memorial Institute since 1938, will direct relations between Battelle and sponsors in the industry; and Leslie G. Jenness, named assistant to the president in charge of research, Kennecott Copper Corp.

• **Plastics fabrication laboratory research** of The Dow Chemical Co. has been consolidated in a new Plastics Basic Research Group at Midland, Mich.

• **Sales offices for its sodium** have been transferred by National Distillers Chemical Corp. from New York to its plant in Ashtabula, O.

• **In preparation for its role** in national defense, Ferro Enamel Corp. has formed a Mobilization Planning Committee within the company to coordinate Government requests for information on its facilities, personnel, possible production schedules, etc.

• **The entire line** of optical instruments produced in the Carl Zeiss plants are available from Ercona Corp., New York, N. Y., just appointed exclusive American agents.

• **Niagara Alkali Co.** is marking its fiftieth anniversary.

• **A reclaim rubber plant** will be opened by B. F. Goodrich Co. at Akron, O., since this industry is booming in the face of government restrictions on rubber and high prices for crude.

• **Chemical companies** report the following sales and earnings on past operations:

Company	*Sales for Year Ending June 30*		*Net Income for Year Ending June 30*	
	1950	*1949*	*1950*	*1949*
The Davison Chemical Corp.	$34,974,856	$37,350,073	$2,159,536	$2,275,884
International Minerals & Chemical Corp.	58,402,180	53,394,760	5,776,660	5,421,017
McKesson & Robbins, Inc.	367,581,792	356,639,055	8,232,105	8,812,591
Spencer Chemical Co.	19,395,960	15,699,344	4,461,312	3,571,240
	Sales for Six Months Ending June 30		*Net Income for Six Months Ending June 30*	
General Aniline & Film Corp.	$42,351,000	$39,054,000	$3,047,000	$2,756,000
Merck & Co., Inc.	40,318,976	35,189,530	4,850,989	3,530,496





Robert K. Rigger (left), named assistant manager, organic chemical sales, Michigan Alkali Division, Wyandotte Chemicals Corp.; and C. W. French, who has joined Pfister Chemical Works, Inc. Mr. Rigger was previously with U. S. Industrial Chemicals. Mr. French has been manager of phosphorous compounds for Oldbury Electro-Chemical Co.

• **An example of a company's** putting into practice the "Point Four" program, and incidentally expanding the market for its own products, is found in the malaria control program carried out in the Shiraz Valley of Iran by the Pennsalt International Corp., Iran Foundation of New York, and Academy of Natural Sciences of Philadelphia. A three-man American scientific team, assisted by Iranians first trained by the team, has completed DDT spraying of some 145 towns and villages, embracing a population of about 220,000 persons, in the heavily malarial infested district of Shiraz. It also collected entomological data on malaria vectors of the area and trained and equipped Iranian teams to continue the program.

Iran Foundation, a private organization now conducting projects to promote health in the Shiraz Valley, engaged Pennsalt Health and Agriculture Service, a division organized by Pennsalt International to provide scientific knowledge and technical guidance on sanitation and insect pest control through the world. The Academy of Natural Sciences' part in the project was to assign Dr. H. Radclyffe Roberts, a malaria specialist, to accompany the PHAS team to aid in the program. Backed by the facilities of Whitemarsh Research Laboratories of PHAS's parent company, Pennsylvania Salt Manufacturing Co., the initial phase of the program, which was expected to take six months, was completed in 2½ months.

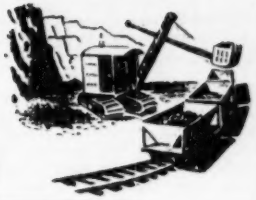
• **Tracking down the cause** of every accident, no matter how slight, is attributed by The Davison Chemical Corp. with reducing accident frequency and severity rates of some of its divisions to as little as 16% and 12%, respectively, of the average for its industry.

• **Commercial Solvents Corp.** has established an annual award of one thousand dollars and a gold medal

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• **Scientific Glass Apparatus Co., Inc.,** has transferred offices and plant to 100 Lakewood Terrace, about a half mile from its former location in Bloomfield, N. J.

• **United Dyewood Corp.** and American Dyewood Co. have moved to 285 Madison Ave., New York, N. Y.

• **An employee and public relations division,** to coordinate all company human relationship activities, has been formed by Wyandotte Chemicals Corp. George H. Baker, recently active with American Potash and Chemical Corp. in similar activities, will head the new division.

• **Stockholders of Allied Chemical & Dye Corp.** have approved the proposed four-for-one split of the common stock. New certificates for Allied stock, to give effect to the split, were mailed on September 1.

• **The B. F. Goodrich Co.** had the best annual safety record in its history last year, and has been granted the Distinguished Service to Safety Award of the National Safety Council.

• **Armstrong Cork Co.,** Lancaster, Pa., is erecting movable steel interiors in its research laboratory to make it possible for offices and individual laboratory rooms to be rearranged to suit the needs of research workers. E. F. Hauserman Co., Cleveland, has been awarded the contract.

• **Buffalo Electro-Chemical Co.,** one of the first manufacturers to make hydrogen peroxide electrolytically in this country, is celebrating its 25th Anniversary.

• **As part of its expanded fellowship program,** the Texas Co. has recently established fellowships at the University of Cincinnati and New York University, bringing to 18 the number of fellowships and grants Texaco has established in institutions throughout the country.

• **Henry Levine & Son, Inc.,** electroplating consultants, has moved its office and laboratory to Jackson Bldg., 153 E. 26th St., New York, N. Y.

• **More than 6800 employees** of Minnesota Mining & Manufacturing Co. received a total of $349,375 as their share in the firm's profits in the second quarter of 1950.

CALENDAR *of* EVENTS

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, annual meeting, Cleveland, O., Dec. 26-30.
AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, annual meeting, Columbus, O., Dec. 3-6.
AMERICAN PETROLEUM INSTITUTE, annual meeting, Biltmore and Ambassador Hotels, Los Angeles, Cal., Nov. 13-16.
AMERICAN PHARMACEUTICAL MANUFACTURERS ASSOCIATION, mid-year meeting, Waldorf-Astoria, New York City, Nov. 27-29.
ASSOCIATION OF CONSULTING CHEMISTS AND CHEMICAL ENGINEERS, INC., annual meeting, Shelburne Hotel, New York City, Oct. 24.
CHEMICAL SPECIALTIES MANUFACTURERS ASSOCIATION, annual meeting, Hotel New Yorker, New York City, Dec. 4-5.
INSTRUMENT SOCIETY OF AMERICA, symposium on industrial waste disposal, Hotel Bellevue-Stratford, Philadelphia, Nov. 2.
NATIONAL PEST CONTROL ASSOCIATION, annual meeting, Netherland Plaza Hotel, Cincinnati, O., Oct. 23-25.
SOCIETY FOR APPLIED SPECTROSCOPY, Sceony-Vacuum Training Center, New York City, Nov. 7.
SOCIETY OF COSMETIC CHEMISTS, fall meeting, Biltmore Hotel, New York City, Dec. 6.
SOCIETY OF THE PLASTICS INDUSTRY, annual national conference, New Ocean House, Swampscott, Mass., Oct. 18-20.
SYNTHETIC ORGANIC CHEMICAL MANUFACTURERS ASSOCIATION, annual dinner, Hotel Commodore, New York City, Dec. 13.
TANNERS COUNCIL OF AMERICA, INC., annual meeting, Edgewater Beach Hotel, Chicago, Oct. 26-27.
TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY, paper-plastics conference, Marshall Hall, New York State College of Forestry, Syracuse, N. Y., Oct. 19-20.

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OPERATING AT VACUUMS, LIMITED BY THE VAPOR PRESSURE OF THE CONDENSATE?

Many stills, dryers, evaporators, crystallizers and other processing vessels are operating at vacua limited by the vapor pressure of the condensate. This means on the average an absolute pressure of about 2.0" Hg. Most owners of such equipment do not realize how practical and economical it is to put a Booster Evactor in the line between the vessel and the condenser and maintain an absolute pressure of 0.5", 0.25" or even lower. The benefits of this higher vacuum in improving quality and capacity are often very substantial.

The steam jet type of vacuum pump has continually gained in favor for high vacuum in industrial process work. The total absence of moving parts is a big advantage and means many years of service, with no maintenance cost. Available in single, two-, three-, four- and five-stage units for vacuum from a few inches up to a small fraction of 1 m.m. Hg. absolute.

Croll-Reynolds have been specializing on this type of equipment for over 30 years, and have made thousands of separate installations. Their engineers have extensive experience in applying it to numerous different processes, and are available for consultation without obligation. Literature is also available on request.



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CHILL-VACTORS STEAM JET EVACTORS CONDENSING EQUIPMENT

PEOPLE

Company Officers

• R. B. Worthy, vice president of **Mathieson Chemical Corp.,** formerly general manager of both the Saltville, Va., and Baltimore, Md., operations, has been named manager of the Saltville operations where he will make his headquarters. His new responsibilities include supervision of the construction and operation of the new $6-million electrolytic chlorine plant at Saltville.

Arthur T. Bennett, vice president, formerly general manager of SASCO operations, has been appointed general manager of the Baltimore operations.

Both the Saltville and Baltimore operations are considered major units for the defense effort.

• Sidney C. Mills has been elected vice president of **Winthrop-Stearns Inc.,** assigned to administrative operations. He has been administrative assistant to the president and assistant treasurer of the company for the last four years.

• **The Lotte Chemical Co., Inc.,** with offices and plants at Paterson, N. J., has appointed W. J. Kramer as vice president in charge of sales. He was formerly vice president and general

manager of Philipp Brothers Chemicals, Inc.





Joseph Marchand (left), named Canadian divisional manager for Abbott Laboratories; and Milton A. Dewey, appointed head of the newly created tetraethyl lead sales department, Canadian Industries, Ltd. Mr. Marchand was formerly a district manager for Abbott with headquarters in Montreal. Mr. Dewey has been with the Du Pont petroleum chemicals division, and will be responsible for Canadian sales of Du Pont tetraethyl lead compounds.

• Philip A. Singleton has been appointed assistant to Edward A. O'Neal Jr., chairman and managing director of **Monsanto Chemicals Limited** in London, England. He has been located in St. Louis as assistant director of the company's Foreign Department since September, 1949. As assistant to Mr. O'Neal he will take part in the expansion of Monsanto's activities in the United Kingdom and in Europe and assist specifically in regard to operational matters and liaison with the various Monsanto companies.

Production

• Richard P. Carter has been appointed assistant superintendent of the **Hercules Powder Co.** plant at Burlington, N. J. He was formerly chief chemist at the plant.

• Louis W. Munchmeyer has been promoted to assistant general manager of **Ansco.** He joined Ansco a year ago as executive assistant to the general manager.

• H. L. Barnebey has been appointed manager, and Sanford R. Bell process engineer, for the chlor-alkali department of **Blaw-Knox Co.'s** Chemical Plants Division.

• Delbert Van Fletcher has been named asssistant director of the technical division of the Grasselli Chemicals Department, **Du Pont.** He had been process manager in the Manufacturing division.

• **Tracerlab, Inc.,** has appointed Sidney S. Minault as production manager. He was chief production engineer at Ansco.

• The **Dow Chemical Co.** of Midland, Mich.. has appointed A. E.

ACRYLIC MONOMERS

ACRYLATE ESTERS

$CH_2=CHCOOR$

Methyl acrylate
Ethyl acrylate
n-Butyl acrylate*
Isobutyl acrylate*
2-Ethylhexyl acrylate*
n-Octyl acrylate*

ACIDS

Acrylic acid*
(60% aqueous solution)

Methacrylic acid
(90% aqueous solution)

METHACRYLATE ESTERS

$CH_2=C(CH_3)-COOR$

Methyl methacrylate
Ethyl methacrylate
n-Butyl methacrylate
n-Hexyl methacrylate
n-Octyl methacrylate
n-Lauryl methacrylate

A versatile series, these monomers offer possibilities in polymers and copolymers varying from very hard, rigid plastics to very soft, "internally-plasticized," rubber-like materials.

The acrylic monomers can also be used as intermediates for the preparation of a variety of *beta*-substituted propionates and isobutyrates, by the addition of halogen acids, alcohols, phenols, H_2S, mercaptans, ammonia, amines, nitroparaffins, and activated methylene groups. Cyclic esters result from the Diels-Alder reaction with dienes.

*Acrylic acid, n-butyl acrylate, isobutyl acrylate, 2-ethylhexyl acrylate and n-octyl acrylate are development products available in pilot plant quantities. The other monomers are available in commercial quantities.

A technical bulletin reviewing the properties, polymerization, copolymerization, and other reactions of the acrylic monomers is available. For a copy of this literature, as well as samples and prices, write to Dept. SP.

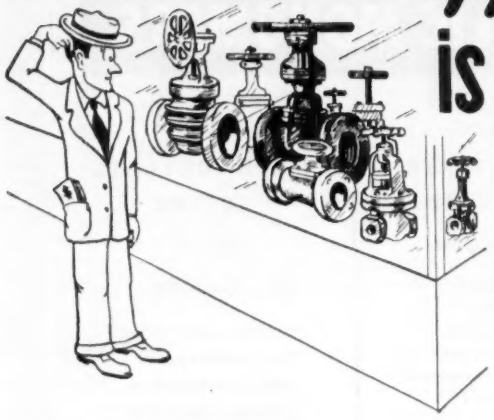
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Because if you buy all your valves from one source you avoid these pitfalls:

Complications in stocking spare valve parts.

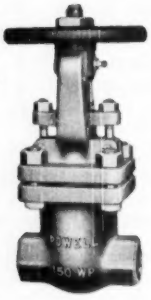
Difficulties that confront the maintenance department in making repairs on a variety of valves.

The necessity of carrying a much larger stock of repair parts.

The chances of installing valves that are not backed by adequate engineering service.

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Fig. 2490 (18-8S, 18-8S Mo, Durimet "20") and **Fig. 2492** (Monel Metal, Nickel, Ampco, Everdur, Hastelloy Alloys A-B-C-D). 150-pound O. S. & Y. Gate Valve with screwed ends and solid wedge. Can be supplied with double wedges. Flanged end valves have face-to-face dimensions conforming to MSS SP-42. Globe valves of this design are also available. →



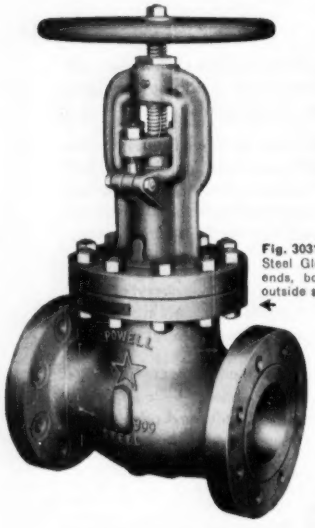


Fig. 3031—Class 300-pound Cast Steel Globe Valve. Has flanged ends, bolted flanged yoke and outside screw rising stem. ←



Fig. 560—200-pound Bronze Regrinding Horizontal Swing Check Valve with screwed ends, screwed-on cap and regrindable, renewable bronze disc.

Fig. 1793—Large 125-pound Iron Body Bronze Mounted Gate Valve. Sizes 2" to 30", incl. Has flanged ends, bolted flanged yoke, outside screw rising stem and tapered solid wedge. →



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POWELL VALVES

Young an assistant to the manager of the plastics division. He has been head of the company's coatings technical service for the last several years.

Research

• E. F. Degering, formerly of the Chemistry Department of Purdue University and latterly of Armour Research Foundation, has joined the **Miner Laboratories** where he will head a group working on problems of organic synthesis.

• John W. Bodman, for 25 years director of research for **Lever Brothers Co.**, has been appointed technical advisor to the management and board of directors.

• In recognition of his many contributions to science, Herman F. Mark, who is the director of the Institute of Polymer Research at the **Polytechnic Institute of Brooklyn**, is the recipient of an honorary degree, Doctor of Engineering, conferred by the University of Liege, Belgium. The degree was conferred by the Academic Senate of the University at the unanimous proposal of the Faculty of Applied Sciences.

Sales

• John H. Hilldring has been appointed general manager of Foreign Operations in charge of the newly created Export Division of **General Aniline & Film Corp.**

• Franklin T. Peters has been appointed manager of the newly-established Market Development Department, **Heyden Chemical Corp.** He has been with the sales department of Glyco Products Co. Arthur L. Davis, transferred from the Technical Sales Department, will be in charge of New Products Applications.

Died

• **George R. Gibbons**, one of the pioneers in the development of the aluminum industry, and a director of Aluminum Co. of America, September 3, at West Penn Hospital in Pittsburgh. He was 71 years old. Mr. Gibbons, who retired as senior vice president of Alcoa on January 1, 1949, began his career with the company in 1901. His entire business career was spent with Alcoa. In addition to his positions in the parent company, he also held directorships and served as an official of several Alcoa subsidiaries.

• **John Johnston**, who until his retirement in 1946 was director of research for United States Steel Corp., September 12, at the age of 69.

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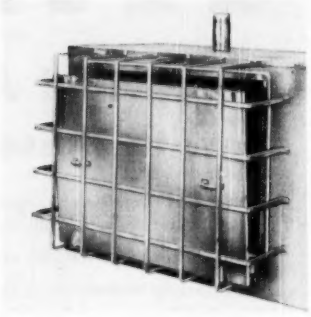
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LABORATORY EQUIPMENT

Drying Oven (632A)

Electric oven makes use of new design to promote laboratory safety.

Intended for use in laboratories where there is a possibility of explosion, the new oven contains a specially insulated back which is immediately released in the event of a sudden pressure rise inside the oven. The blowout panel is surrounded by a cage which will prevent its moving more than eight inches from its normal position. Six additional safety factors are incorporated to assure



the safest practicable design and construction in standard type laboratory ovens, without premium prices.

In addition to the normal technical requirements, there is the elimination of hazards due to sparks from electrical connections, high velocity air transfer, low surface temperature of heating elements, auxiliary limit temperature controller, suitable exhaust port, and blowout back panel and guard.

Three sizes and two models are available from The Electric Hotpack Co., Philadelphia, Pa., ranging in size from 2 cubic feet to 20 cubic feet.

Precision Thermostat (632B)

Thermostat provides smooth, continuous control of electric furnace within a very small range at high temperatures.

Dr. Wm. R. Eubank of the National Bureau of Standards has developed a furnace thermostat in which the furnace winding itself serves as the sensitive element, forming part of a bridge circuit for control of a thyratron tube. The thyratron circuit then acts as a continuously variable valve, allowing just enough current to reach the furnace to compensate for a given temperature fluctuation.

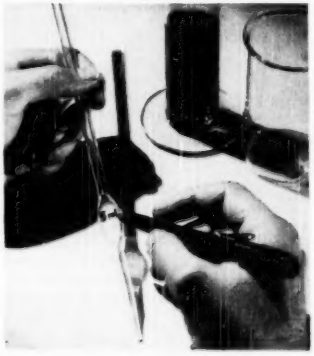
The new thermostat is highly sensitive and independent of normal fluctuations in line voltage. Easily adjusted for any temperature, and reliable for periods of continuous operation from a few minutes to several days, it should provide a useful research tool in such fields as metallurgy, ceramics, glass technology, and cement chemistry, where automatic control of furnace temperatures has long been a problem.

• A new instrument for the detection and counting of alpha, beta, and gamma particles is available from the Special Products Div., General Electric Co., Schenectady 5, N. Y.

Called a "universal **scintillation counter**," the device provides low background alpha counting and high efficiency beta and gamma counting. Uses include analytical determination of disintegration rate, and in counting radiation of ore samples.

When used as an alpha counter, the background is not more than a few counts per hour. Counting efficiency is essentially 100% for thin samples. As a beta counter, the device offers several advantages over an end window Geiger Mueller counter. As a gamma counter employing a liquid phosphor, it has a sensitivity many times that of an ordinary Geiger Mueller counter. A standard scaler supplying high voltage is used. When the sample is put in the counting position, particles strike a phosphor causing scintillation which is detected by the photomultiplier tube. (632C)

Marking Pen (632D)



Non-smear marking pen which will mark a 1/16 inch line on any type surface is being manufactured by The Time Savings Specialties Co. of Minneapolis, Minn., for laboratory use.



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Permas Weights are corrosion resistant. They are not altered by the corrosive fumes often encountered in the laboratory.

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*Permas—*permanent mass*—is a coined word, registered in the U. S. Patent Office, and is pronounced per'-mass.

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That's why it's a good idea to use Wyandotte "high-light" Kreelon. This superior detergent dissolves more quickly, is more soluble than most other detergents, and forms no insoluble water hardness complexes. It makes a clear, water-white solution. These qualities may be strikingly demonstrated by dissolving samples of Kreelon and other detergents in separate beakers of water — and holding them up to the light. Note the clarity of the Kreelon solution. Compare it with the hazy, "muddy" appearance of the other detergent solutions.

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Chemicals

Activated Carbon 635A

10-p. booklet discusses vapor and liquid phase adsorbent applications of granular and pulverized activated carbon. Comparative advantages of each described and uses in decolorization, deodorization purification, isolation, solvent recovery, gold recovery and catalyst and catalyst support. Pittsburgh Coke and Chemical Co.

Alkyl Phenol 635B

Technical bulletin describes properties and uses of alkyl phenol C-9, a mixture of monoalkyl phenols predominantly para substituted. Jefferson Chemical Co.

Organolithium Compounds 635C

60-p. bibliography covers the papers on organolithium compounds in organic synthesis published in 1948 and 1949. Includes papers dealing with the use of lithium metal and some papers covering reactions involving lithium amide. Booklet is supplement No. 1 to "Annotated Bibliography on the use of Organolithium Compounds in Organic Synthesis." Metalloy Corp.

Chemicals from Coal 635D

44-p. booklet describes properties and uses of 58 commodity and specialty chemicals recovered in the coking of coal or derived from coal distillation. Properties of only the pure compounds are presented. Booklet No. T05-500, Koppers Co., Inc.

Chemicals 635E

62-p. booklet lists prices of chemicals available from the G. Frederick Smith Chemical Co.

Bonding Agent 635F

Technical data sheet describes uses, properties and advantages of Rez-N-Bond, a non-inflammable bonding agent for cementing either acrylics or polystyrene. Schwartz Chemical Co., Inc.

Gasoline Dye 635G

6-p. booklet describes properties and uses of oil blue A, a blue gasoline dye especially developed for aviation gasolines. Petroleum Chemicals Div., E. I. du Pont de Nemours and Co., Inc.

Polyethylene 635H

24-p. booklet summarizes the characteristics, development and latest applications of polyethylene resins. Also included is information on methods of fabrication. Bakelite Div., Union Carbide and Carbon Corp.

Collagen 635I

135-p. bibliography on collagen contains 1008 references classified under three main headings: biology, biophysics and chemistry. Eastern Regional Research Laboratory, U. S. Department of Agriculture.

Liquid Resorcinol Resin 635J

Folder describes Cascophen, a liquid resorcinol resin of the cold setting wood type, and contains both household and production gluing instructions. Chemical Div., The Borden Co.

Coating 635K

4-p. bulletin describes properties and advantages of corrosion-proof white enamel. Prufcoat Laboratories.

Gasoline Antioxidants 635L

24-p. bulletin describes gasoline antioxidants Nos. 5, 6, and 22 and their use and application for improving gasoline storage stability. Information on composition and properties and preparation included. Also nomograph and conversion scale for converting antioxidant concentrations. Technical Bulletin AO-50, Petroleum Chemicals Div., E. I. du Pont de Nemours and Co., Inc.

Dimethyl Chloroacetal 635M

8-p. bulletin describes properties and characteristics of dimethyl chloroacetal. Descriptive chart of representative reactions and 41-item bibliography included, as well as data on purification, stability and directions for use. Antara Products, General Aniline and Film Corp.

Chemicals for Textiles 635N

Research Bulletin No. 48 lists previously unpublished German patent applications and research reports and manufacturing processes in the field of textile auxiliaries. The bulletin is divided into 4 sections, Preparation of Intermediates, Processing and Application, New Products and Manufacturing Processes and Team Reports. Research Information Service.

Synthetic Organic Chemicals 635O

16-p. booklet presents data on applications and physical properties of more than 250 synthetic organic chemicals in tabular form. Carbide and Carbon Chemicals Div., Union Carbide and Carbon Corp.

Cadmium Type Stabilizer 635P

Report S-1 describes properties and use of stabilizer No. 40, cadmium type, a light and heat stabilizer for polyvinyl-chloride type resins. Witco Chemical Co.

Cadmium-Barium Type Stabilizer 635Q

Report S-2 describes properties and uses of stabilizer No. 70, cadmium barium type, for polyvinyl-chloride type resins. Witco Chemical Co.

Crotonaldehyde 635R

Bulletin 24 describes physical and chemical properties of crotonaldehyde. Data on current specifications and shipping and handling included. Niacet Chemicals Division.

Polyvinyl Chloride Plasticizers 635S

7-p. technical bulletin discusses plasticization of polyvinyl chloride resins. Suggested formulations given for clear calendered films, plastisols, spread coatings and slush molding compounds. The Baker Castor Oil Co.

Di-tert-Butyl-para-Cresol 635T

13-p. bulletin describes physical and chemical properties, uses and chemical reactions of di-tert-butyl-para-cresol, a crystalline, tr-alkylated phenol which is insoluble in water and aqueous alkali of any strength. Technical Bulletin C-O-115, Koppers Co., Inc.

Textile Lubricants 635U

Bulletin on Ucon textile lubricants for woolens and worsteds presents the results of a two-year testing program and lists the advantages and physical properties of water-soluble wool oils. Form W484, Carbide and Carbon Chemicals Division, Union Carbide and Carbon Corp.

Adhesives 635V

8-p. catalog describes various adhesives, recommends uses, and tells the method of application, as well as listing specifications. Catalog Section 9160 The B. F. Goodrich Co.

Cleaning Agents 635W

4-p. bulletin describes the application for and nature of Chemical maintenance products. Selection chart shows individual maintenance cleaning operations and proper cleaning agent for each. Publication B-1, Fine Organic, Inc.

Adhesive Cements 635X

64-p. book discusses application of adhesive cements and compounds. Charts and illustrations included. Sauereisen Cements Co.

Coating 635Y

2-p. bulletin describes application and use of Granodine for anchoring paint to cold-rolled steel products. American Chemical Paint Co.

Equipment

Pipe and Fittings 635Z

Catalog describes properties and fabrication of saran lined steel pipe, fittings and valves. Photographs, cross-section and dimensional drawings included. Saran Lined Pipe Co.

Worm Gear Speed Reducers 635AA

35-p. booklet describes operation and construction of type AT and RT worm gear speed reducers. Horsepower rating tables and dimensional drawings included. Bulletin No. 130, The Cleveland Worm and Gear Co.

pH Electrodes 635BB

28-p. catalog describes complete line of pH electrodes and assemblies for both industrial and laboratory applications. Advantages of each type of electrode discussed. Photographs and diagrams included. Catalog EN-S5, Leeds and Northrup Co.

Mask Speaking Diaphragm 635CC

2-p. bulletin describes speaking diaphragm for communication between two people equipped with masks or breathing apparatus. Bulletin B-21, Mine Safety Appliances Co.

Laboratory Apparatus 635DD

16-p. booklet describes and illustrates various new laboratory apparatus, including flask with cork insulated top, microscope lampmortar and pestle, and tubular filter made of fritted glass. Scientific Glass Apparatus Co.

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Recording Gages 636A

32-p. bulletin describes measuring elements, operating principles, recording charts and accessories for various types of recording gages. Data on instruments for automatic controlling and telemetering of pressure and vacuum values also included. Bulletin G621, The Bristol Co.

Water Hardness Tests 636B

4-p. bulletin describes procedures, reagents and equipment for "one-minute tests" for determining water hardness. Tests may be used to determine total water hardness or hardness due to calcium alone or to magnesium alone. Hall Laboratories, Inc.

Direct Current Recorder 636C

4-p. bulletin describes construction features and use, and gives specifications for portable direct current recorder. Publication No. TP-18-A, Wallace and Tiernan Products, Inc.

Indicating and Recording Thermometers 636D

Folder describes and gives specifications for five different types of thermometers, and for bulbs and fittings. The Electric Auto-Lite Co.

Extruded Plastics 636E

8-p. bulletin explains various forms of plastic extrusions. Data on properties and photographs of components included. Anchor Plastics Co., Inc.

Stationary Air Compressors 636F

8-p. bulletin presents engineering data, sizes and dimensions and gives cross-sectional views of "T" Series stationary air compressors. The series consists of two lines, one designed for pressures of 100–125 pounds and the other rated at 200 pounds for continuous service. Ingersoll-Rand Co.

Ammonia Compressors 636G

Bulletin C-1100-B-36 describes "Y" ammonia compressors, both single and two stage. Specifications and over-all dimensions included. Worthington Pump and Machinery Corp.

Pipeline Anti-Corrosion Tape 636H

4-p. bulletin describes chemical, physical and electrical properties of "Scotch" brand electrical tape No. 22. Pictures on application technique included. Minnesota Mining and Manufacturing Co.

Face Mask 636I

4-p. bulletin describes advantages and design of full-vision face piece. Acme Protection Equipment Co.

Vibrating Feeder 636J

4-p. bulletin describes advantages, operation and construction of mechanical vibratory feeder. Bulletin No. 134, Hewitt-Robins, Inc.

Vibrating Conveyor 636K

4-p. bulletin describes advantages, operation and applications of vibrating conveyor which produces mechanical operation without counterweights. Bulletin No. 135, Hewitt-Robins, Inc.

Turbo-Drive 636L

4-p. bulletin describes advantages and operation of turbo-drive for moving sand or flowable materials vertically or horizontally. Diagram and installation pictures included. Turbo-Drive.

Zeolite Softeners 636M

4-p. bulletin describes features of zeolite softeners. Tables on specifications, dimensions and capacities and diagrams included. Publication 4805, Cochrane Corp.

Separators and Filters 636N

8-p. bulletin describes equipment for removal of water, oil and pipe scale from compressed air systems: cyclone separators, poro-stone air filters and after-coolers. Tables of prices and dimensions included. R. P. Adams Co., Inc.

Casters and Trucks 636O

36-p. catalog describes line of industrial casters, platform trucks, and hand trucks. Data on construction and complete specifications included, and items are illustrated. The Rapids-Standard Co., Inc.

Bleaching Process 636P

Bulletin describes cold steep bleaching process in which hydrogen peroxide is the active bleaching agent. Equipment and procedure fully discussed. Buffalo Electro-Chemical Co.

Relative Humidity Test Chambers 636Q

4-p. bulletin describes performance and construction and gives specifications for relative humidity test chambers which are mechanically refrigerated. Bowser, Inc.

SO_2 Recording or Controlling Equipment 636R

4-p. bulletin describes operating and design features of Micromax SO_2 recording equipment and Micromax electric or pneumatic control. Specifications included. Folder N-91(la), Leeds and Northrup Co

Flowrator 636S

24-p. bulletin describes features, construction and operation of Series 700 flowrator. Diagrams and installation suggestions included. Catalog Section 25-E, Fischer and Porter Co.

Boiler Feed Water Treatment 636T

6-p. bulletin discusses development, operation, and application of Hot-Z system for treating boiler feed water. Bulletin W-212B7, Worthington Pump and Machinery Corp.

Pressure and Temperature Regulators . . 636U

32-p. booklet describes and gives capacities, flow data, weights and dimensions for pilot-operated pressure and temperature regulators. Pictures, charts and tables included. Spence Engineering Co., Inc.

Materials Handling 636V

32-p. catalog describes materials handling equipment such as casters, conveyors, floor trucks, lift trucks and skid-platforms. Market Forge Co.

Miscellaneous

Chemical Consultants 636W

20-p. booklet describes facilities and equipment of Foster D. Snell, Inc., and discusses reasons for using a consultant.

Electroplating School 636X

Bulletin describes correspondence course given by Joseph B. Kushner Electroplating School.

Safety 636Y

4-p. reprint "Labor-Management Cooperation for Safety" discusses principles approved by the President's conference on Industrial Safety.

Paper Mill Wastes 636Z

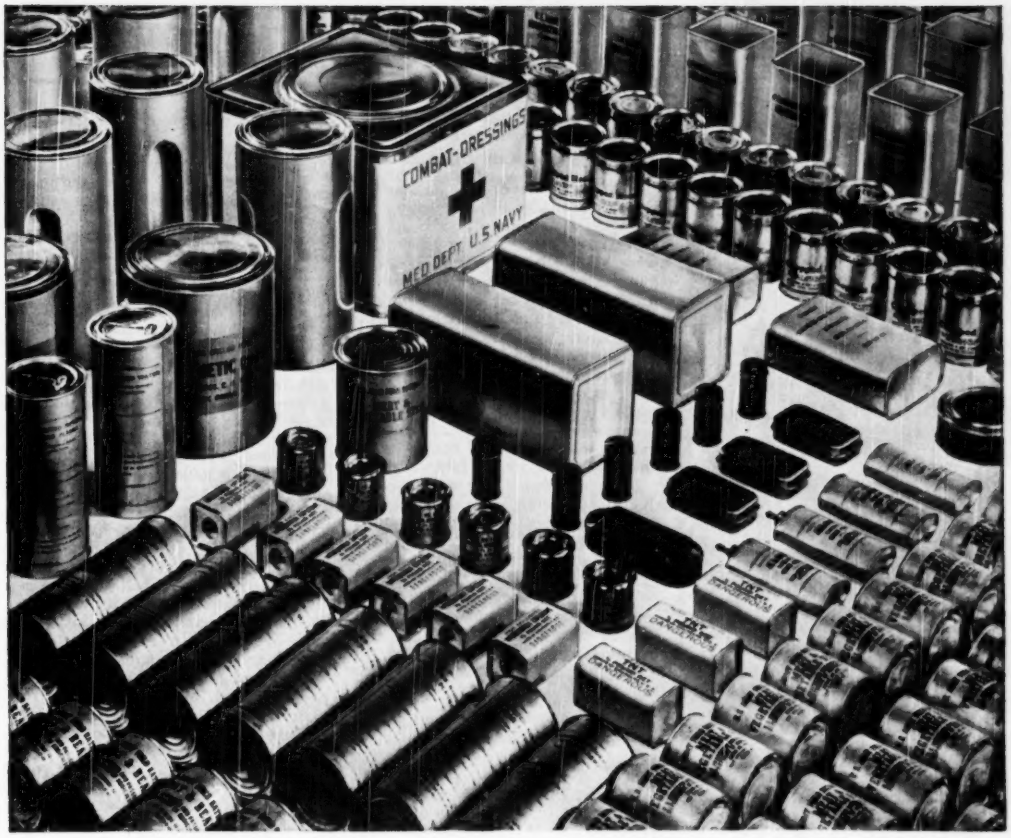
46-p. booklet deals with bacteriological studies of stored Kraft paper mill wastes for the purpose of decreasing stream pollution as well as lower the cost of waste disposal. Series 19, Engineering Experiment Bulletin. Louisiana State University.

Wiser Use of Wood 636AA

36-p. booklet describing the history and work of the U. S. Forest Products Laboratory. Employees' Assoc., Forest Products Laboratory.

Low Temperature Effects 636BB

62-p. publication treating the effects of low temperatures on the properties of materials such as metals, plastics and rubbers. Special Technical Publication No. 78, American Society for Testing Materials.



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CHEMICAL MARKETS

Chemical Production Lowered by Ash Strike

Production levels of industrially important inorganic chemicals were generally lower in July than in June 1950. However, in most cases they were higher than for July 1949. Production decreased over that of the previous month for 21 of 37 chemicals listed by the Bureau of Census while increases were chalked up for 15. However, reductions in the production of at least six of these chemicals can be attributed directly to the long strike which began at the soda ash plants of one of the producers and spread to the plant of another a few weeks later.

After reaching a non-seasonal production peak in May, sulfuric acid finally began the normal summer slump abetted by another sharp drop in production of synthetic ammonium sulfate and a sharp decrease in superphosphate.

Natural soda ash production was pushed to new high levels by the extraordinary demand created by the unavailability of ammonia-soda ash.

Styrene Continues Upward Push

Despite the critically short supplies of benzol, production of monomeric styrene continues to reach new high levels—over 43 million pounds for June of this year. Stimulus for this increase is the continually increasing demand for styrene for synthetic rubber and the apparently insatiable demands for polystyrene by injection molders. In the face of this critical need for benzene nearly 500,000 gallons of motor-grade benzol were produced in June of this year but it is probable that this amount will disappear in the near future. Tar distillers again ceased making this grade of product in June and coke oven operators decidedly reduced its production over that of previous months.

Potash Deliveries at New High

Potash deliveries during the second quarter of 1950 in North America by the five major American potash producers and three importers totaled 693,247 tons of potash salts containing an equivalent of 392,687 tons of K_2O, a new high, the American Potash Institute reports. It represented an increase of 16% in salts and 21% in K_2O over the tonnage delivered during the corresponding period in 1949. Imports comprised 57,044 tons K_2O in the above and included those from France and Western Germany during the entire first half of 1950.

Deliveries for chemical purposes amounted to 32,896 tons of salts, equivalent to 20,402 tons of K_2O. Deliveries for agricultural purposes in the United States, Canada, Cuba, Hawaii, and Puerto Rico (Institute countries) amounted to 652,939 tons of salts equivalent to 367,820 tons of K_2O, consisting of 331,007 tons as muriate, 2,086 tons as manure salts, and 34,727 tons as sulphate of potash and sulphate of potash-magnesia. Exports to other than Institute countries totaled 4,465 tons K_2O.

During the first six months of 1950, total North American deliveries including imports amounted to 1,115,737 tons of salts containing an equivalent of 633,256 tons K_2O.

The chemical industries took 62,877 tons of potash salts containing an equivalent of 39,034 tons af K_2O, a 16% increase over the first half of 1949. Deliveries of potash for agricultural use in Institute countries totaled 1,037,391 tons of salts with an equivalent of 584,923 tons of K_2O, a decrease of 6% in salts and an increase of 1% in K_2O over last year. Making up these agricultural deliveries were 530,492 tons K_2O as muriate, 2,788 tons K_2O as manure salts, and 51,643 tons K_2O as sulphate of potash and as sulphate of potash-magnesia.

Sulfur Stocks Up

The domestic sulfur industry produced 487,845 long tons of native sulfur during the month of June, 1950, according to reports of producers to the Bureau of Mines, United States Department of the Interior. This was a new high for production in a single month and brought total production for the first 6 months of 1950 to a record of 2,543,443 long tons. Mine shipments dropped to 418,502 long tons.

Apparent sales were calculated at 407,404 long tons. For the first time in many months producers' stocks increased, and at the end of June, stood at 2,956,333 long tons at mines, in transit, and in warehouses. The increase continued the following month when stocks increased an additional 19,594 long tons. Production for July was 466,063 long tons.

Citric Acid Price Freeze

In an unusual move the price of citric acid this month was frozen for a period of one year by Chas. Pfizer & Co. In price-stabilization move, the company guarantees not to raise the price before August 31, 1951.

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- ☐ **Agitators for Liquids:** by Julian C. Smith, March 1949.
- ☐ **Centrifuges** by Julian C. Smith, September 1949.
- ☐ **Chemical Filters** by Shelby A. Miller, January 1950.
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Market Review

For the first time in nearly four months a bright spot appears on the soda ash and soda ash-derived chemical horizon. Settlement of the Solvay strikes at Syracuse and Baton Rouge will probably provide a pattern for the settlement of the strikes at Solvay's Detroit plant and at Diamond's Painesville unit. Many feel that these long strikes have so unbalanced the supply-and-demand position of soda ash that new capacity will be called for much sooner than the industry had anticipated. And any totally new capacity will require a much higher price for ash. One first step will be to stop the causticization of soda ash as fast as rayon-makers will permit. During the strike the price of soda ash was increased 20¢ per hundred pounds for light ash to a level of $2.40 per hundred, the second increase this year.

Gum turpentine has advanced sharply in the past month from 49¢ per gallon to 87¢ per gallon. Many in the trade feel that further advances are in store as foreign demand remains strong and supplies are somewhat limited. Further point for worry: If prices increase much more it is expected that serious inroads will be made as use of lower-cost petroleum thinners increases.

Shutdown of one carbon tetrachloride plant by the alkali strike has made a serious dent in the supply. Resellers have been asking as high as 18¢ per pound, ten cents above the usual 8¢ figure.

Billing practices of a number of specialty producers have changed. Bills are now being rendered with the price of the date of shipment rather than with the price of the date that the order was placed. The change was attributed to the current tight market for chemicals and the rapid changes in price that have occurred over the past few months.

Carnauba wax has scored another advance, from $1.12 per pound to $1.15.

Manufacturers of plastic film have introduced voluntary allocation of their production. Some in the trade attribute this primarily to a chlorine shortage. However, the Diamond and Solvay strikes shut down only about 8% of the total chlorine production capacity—one vinyl chloride plant was shut down completely. Thus it would appear that much of the shortage might best be attributed to a combination of short chlorine supplies and a continually increasing demand. One company has raised the price of their vinyl resins from 34 to 36¢ per pound. At the same time the basic price of polyethylene resins was increased two cents per pound to 46¢.

Glycerin and the glycols advanced again this month under the pressure of heavy demand. Soap lye glycerin hopped nimbly from 35 to 50¢ per pound; propylene glycol moved from 16 to 17½¢ per pound; ethylene glycol from 14½ to 16¢ per pound. At the same time ethylene oxide moved up from 16¾¢ per pound to 18¼¢.

Nearly all types of metallic compounds have joined the upward price movement: Antimony trichloride moving up from 29 to 34¢ per pound; lead acetate from $21 to $22 per hundredweight; nickel acetate from 53 to 57¢ per pound; stannous chloride from 70½ to 75¢ per pound; zinc borate from 17½ to 18½¢ per pound.

Short supplies of benzol have put an especial pinch on plastics supplies. There is adequate capacity, for the moment at least, for styrene monomer and supply-and-demand appear to be in balance. The difference in U. S. benzol supplies and needs is being met with high imports and equally high prices. The large user can average out his cost of production with the usual coke oven product. But this course is not open to the small user who has depended upon the spot market. He now is at the mercy of a merciless resale market.

Other advances include liquid chlorine from $51 to $54 per ton and rayon-grade caustic from $2.50 to $2.65 per hundredweight for the 50% solution.

Methanol is in short supply as antifreeze canners stock up for the next season. Completion of the season should see methanol return to the long position which it has held for several years. Formaldehyde, much of which is derived from methanol, has advanced from 3.7 to 4.2¢ per pound; paraformaldehyde from 13 to 13½¢ per pound; hexamethylene tetramine from 22 to 23¢ per pound.

The penicillin supply situation has been changed by the Korean War from a very soft buyer's market to a seller's market. Foreign buying is heavy because of the fear that war might reduce U. S. exports.

Despite settlement of the alkali strike, supplies of bleached pulp are expected to remain short for the remainder of the year. The strike-lowered supplies of chlorine will make it difficult to meet requirements for the rest of the year.

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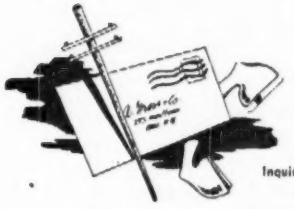
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Printed copies of patents are available from the Patent Office at 25¢ each. Address the Commissioner of Patents, Washington, D. C., for copies and for general information concerning patents or trademarks.

U. S. Patents from Official Gazette—Vol. 635, No. 1 (June 27) and Vol. 636, Nos. 1, 2, 3 (July 4-18)

*Polymers**

Polymeric amino alcohol composition prepared by subjecting a copolymer of a vinyl t-hydroxy ketone and a polymerizable open chain having at least one vinyl group, ammonia and a hydrogenation catalyst. 2,510,108. Publicker Industries Inc.

Aqueous polyvinyl acetate emulsion containing water, water soluble polyvinyl alcohol, and glyoxal. 2,510,257. E. I. du Pont de Nemours & Co.

Polymerization of monomeric mixtures of a chloroethylene and another copolymerizable unsaturated compound in aqueous medium in the presence of an ionizable silver compound. 2,510,426. B. F. Goodrich Co..

Preparation of a furfurylated alkyl urea ether resin by heating under alkaline conditions an alkyl ether of dimethylol urea with furfuryl alcohol in the presence of an alkaline catalyst. 2,510,496. American Cyanamid Co.

Polymers and copolymers of unsaturated triazines. 2,510,503. American Cyanamid Co.

Polythioesters prepared by the condensation of at least one acid chloride of a dibasic acid and at least one dimercaptan. 2,510,567. Wingfoot Corp.

Ether-carbonates and polymers. 2,510,600. Wingfoot Corp.

Passing boron trifluoride through a solution of acenapthylene and adding a non-solvent to the resulting solution to obtain a high molecular weight polymer of acenaphthylene. 2,510,647. General Electric Co.

Dry thermosetting composition—a urea-formaldehyde reaction product and ethylene glycol bis-(benzenesulfonate), as a curing catalyst. 2,510,762. Libbey-Owens-Ford Glass Co.

Composition of matter comprising a synthetic linear polycarbonamide. 2,510,777. E. I. du Pont de Nemours & Co.

Preparing tough, orientable polyvinyl fluoride from monomeric vinyl fluoride and a liquid polymerization medium in the presence of an organic azo compound. 2,510,783. E. I. du Pont de Nemours & Co.

Producing a hard resin which is substantially alkali-resistant, insoluble in drying oils and aliphatic hydrocarbons and resistant to petroleum base greases by reacting phenol with formaldehyde in aqueous solution in the presence of an alkaline catalyst to produce a drying oil-insoluble condensate; dissolving the condensate and a liquid monohydric alcohol ester of a rosin acid in a mutual solvent which is sufficiently volatile to permit its separation from the resin ultimately formed; heating the solution until the ester has reacted substantially with the condensate to provide a hard clear resin. 2,510,837. Hercules Powder Co.

Ethyl cellulose-phenol modified coumarone-indene lacquer for polystyrene. 2,510,851. Dow Chemical Co.

Amine-epoxy-phenol compositions. 2,510,885. Devoe & Raynolds Co., Inc.

Copolymer of maleic acid anhydride, chloromaleic anhydride, dimethyl maleate and a compound having the formula, $CH_2=CH\text{-}(CH_2)_7\text{-}CH_2\text{-}X$ (where X is selected from the group consisting of -COOR, -COR, -CONRR', and -CN and R and R' are selected from the group consisting of hydrogen and an alkyl radical containing more than 5 carbon atoms). 2,510,902. Hercules Powder Co.

Adhesive composition for bonding polymonovinylaromatic resins to solids; consisting of a polymonovinylaromatic resin and a liquid triarylphosphate, dissolved in a chloroaliphatic hydrocarbon. 2,510,908. Dow Chemical Co.

Condensation of formaldehyde with ketones and nitroparaffins. 2,510,914. Hercules Powder Co.

Hydrogenated condensate of 10-hendecanoic acid and maleic anhydride and esters thereof. 2,510,915. Hercules Powder Co.

Resinous reaction product of formaldehyde with 2,5-diamino-1,3,4-thiodiazole. 2,510,935. Libbey-Owens-Ford Glass Co.

Condensation product of formaldehyde, a phenol, and a ketone-amine condensate. 2,511,063. Monsanto Chem. Co.

Copolymer of hexafluorocyclobutene and a polymerizable monomeric ethylenically unsaturated compound having a terminal carbon-to-carbon double bond. 2,511,258. E. I. du Pont de Nemours & Co.

Codehydration products of halogen hydrolysis only of an inorganic silicon halide. 2,511,296. ½ to Montclair Research Corp. and ½ to Ellis-Foster Co.

Preparing organo silicon polymers by blowing dry air through an alkoxy silane until a soluble polymerized resinous material is obtained. 2,511,297. ½ to Montclair Research Corp. and ½ to Ellis-Foster Co.

Polymeric compounds from hydrocarbon silane diols and polyisocyanates or polyisothiocyanates. 2,511,310. E. I. du Pont de Nemours & Co.

A chlorinated polymerized ester formed from acrylic acid and a straight chain monohydric alcohol higher than propyl. 2,511,424. Pierce Lab., Inc.

Polyperoxide catalysts in ethylene polymerization. 2,511,480. E. I. du Pont de Nemours & Co.

Diol-diisocyanate high molecular polymerization products. 2,511,544. Attorney General of the U.S.

Plastic composition comprising a homogeneous mixture of a normally solid synthetic organic polymer and a plasticizer; the plasticizer being a non-resinous ester of Diels-Alder adduct of anthracene and an alpha, beta ethylenically unsaturated carboxylic acid and a monohydric aliphatic alcohol. 2,511,577. Neville Co.

Producing a granular vinyl chloride polymer by bringing together liquefied monomeric vinyl chloride or mixtures of vinyl chloride and about 5% of vinylidene chloride or alkyl methacrylate, with an indifferent liquid medium consisting of water and such water-soluble catalysts as alkali-metal persulfates, ammonium persulfate and sodium peracetate. 2,511,593. United States Rubber Co.

Preparing chlorinated butadiene polymers by coagulating synthetic rubbery polymer from a latex formed by emulsion polymerization of a material selected from conjugate diolefin hydrocarbons, halogen-substituted conjugate diolefins, and mixtures of styrene, acrylonitrile, or acrylic esters with conjugate diolefins or halogen-substituted conjugated diolefins. 2,511,605. Hercules Powder Co.

Polymeric ester of Δ3,5-cyclohexadiene dicarboxylic acid-1,2 and glycol. 2,511,621. California Research Corp.

Preparation of granular polymerization products of vinyl chloride and vinyl bromide while dispersed in an aqueous medium having dissolved as a dispersing agent a heteropolymer of vinyl acetate and maleic acid or maleic anhydride. 2,511,811. Monsanto Chemical Co.

Resins of alkyl-substituted cycloalkanol esters of acrylic acids. 2,511,880. U.S.A. as represented by the Secretary of Agriculture.

Aqueous dispersion of glycolphthalate-adipate. 2,511,895. E. I. du Pont de Nemours & Co.

Fireproof and insulating hardenable plastic composition—calcined magnesite, vermiculite, wood flour, silica flour, and a plasticizing solution including magnesium sulfate, citric acid, magnesium chloride and water. 2,511,904. Carl F. N. Clasen and Jennie M. Hummer.

Resinous epoxides and aromatic amine aldehyde condensates. 2,511,913. Devoe & Raynolds Co., Inc.

Producing a resinous polymeric material by reacting zirconium n-butylate with tri-hexyl phosphate. 2,512,063. Ferro Enamel Corp.

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* From Vol. 634, Nos. 4, 5; Vol. 635, Nos. 1, 2, 3.

Production of an alkyd resin by heating a linear homopolymer of allyl acetate with diethyl phthalate and sodium ethylate and removing the formed ethyl acetate by distillation. 2,512,410. Shell Development Co.

Hosepipe of drawn, heat set filamentous highly polymeric linear esters obtained by heating glycol with terephthalic acid, and ester forming derivatives of terephthalic acid. 2,512,433. Imperial Chemical Industries Ltd.

Uniformly pigmenting tough, solid ethylene homopolymer by mechanically working dry a finely-divided, difficultly dispersible pigment into a hydrocarbon wax and thereafter mixing the wax-pigment dispersion with fused ethylene polymer. 2,512,459. E. I. du Pont de Nemours & Co.

Flattening agent—a methyl cellulose coated metallic salt of a raw, non-pyrolized Manila gum resin, the metal being one from the group consisting of aluminum, magnesium, calcium, strontium, barium and zinc. 2,512,470. Interchemical Co.

In preparing vinyl polymers by subjecting a liquid vinyl ester of a monocarboxylic acid to polymerization, the step comprising adding styrene or alkyl substituted styrene to the polymerization reaction after partial polymerization, whereby the reaction is terminated. 2,512,472. E. I. du Pont de Nemours & Co.

*Rubber**

Synthetic rubberlike materials by compounding a polymerized alkyl acrylate resin with a vulcanizing agent comprising a quinone derivative together with a lead oxide and heating until vulcanization is effected. 2,509,513. U.S.A. as represented by the Secretary of Agriculture.

Manufacture of synthetic rubber by adding water suspension of hydrophilic carbon black, to the latex of a rubber-like copolymer, thereby producing a stable dispersion without coagulation; then precipitating the rubber-like copolymer with the dispersed carbon black by acidifying the mixture. 2,509,664. Godfrey L. Cabot, Inc.

Composition of asphalt and a butadiene-acrylonitrile copolymer adherent to asphaltic surfaces and resistant to deleterious softening by petroleum oils. 2,509,777. Shell Development Co.

Producing raw unvulcanized butadiene-1,3 hydrocarbon polymer by admixing a synthetic latex prepared by the polymerization of a butadiene-1,3 hydrocarbon in aqueous water-soluble soap emulsion, with a clay and an electrolytic coagulating agent which converts the soap into water-insoluble material and thereby irreversibly coagulate the latex. 2,510,370. B. F. Goodrich Co.

In processing of a predominantly linear chain polymer prepared from isobutylene and a C_4-C_8 conjugated diolefin, the steps of adding to the polymer 0.1 to 1% of a C_8 to C_{12} alkyl mercaptan and milling to reduce the viscosity of the polymer. 2,510,808. Standard Oil Development Co.

In an aqueous emulsion polymerization process for the production of rubbery materials wherein a conjugated diolefin of 4 to 6 carbon atoms is copolymerized with acrylonitrile, styrene or vinyl methyl ketone, the improvement which comprises adding to the polymerized emulsion an aqueous suspension containing a stabilizing agent selected from beta naphthylamine and dibetanaphthyl p-phenylene diamine, an alkanol of 2 to 4 carbon atoms, a colloidal clay and an emulsifying agent selected from gum arabic and casein. 2,510,882. Standard Oil Development Co.

Preservation of rubbery polymers by derivatives of ketone amines. 2,511,064. Monsanto Chemical Co.

Heat-sensitizing of ammoniated latex for manufacturing molded articles. 2,511,722. Societe a Responsabilite Limitee dite: Societe Auxiliaire de L'Institut Francais du Caoutchouc.

*Specialties**

Alginic acid sulfate anticoagulant. 2,508,433. Wyeth Inc.

Compound for forming a waterproof paste for sealing concrete walls—ammonium alum, magnesium sulphate, potassium bitartate, sodium chloride, ground sand, calcium sulphate, and Portland cement. 2,508,480. Harry L. Ainsworth.

Soldering flux composed of zinc chloride, a wetting agent selected from sodium lauryl sulphate and a sodium alkyl aryl sulphonate, water and powdered solder held in a stable suspension. 2,508,501. Armand Di Giulio.

Dichloro aluminum aminoacetate hydrate deodorant composition. 2,508,787. Chattanooga Medicine Co.

Cleaning composition—kerosene, an organic amine soap, o-dichloro-benzene, a lower aliphatic diamine, ethylene glycol monobutyl ether, and water. 2,509,197. Shell Development Co.

Recovery of valuable materials from spent adsorbent employed in the refining of fats and oils (containing oleaginous and nonfatty material, including color bodies), by extraction with a liquefied normally gaseous hydrocarbon solvent. 2,509,509. Swift & Co.

Nonflammable hydraulic fluid—hexachlorobutadiene, polymerized ester of methacrylic acid, glycidyl cyclohexyl ether, and tricresyl phosphate. 2,509,620. Shell Development Co.

Corrosion preventing compositions—a light liquid hydrocarbon, an oxidized waxy hydrocarbon, a mixture of alkaline earth metal salts of organic sulfonic acid and a non-aromatic alcohol. 2,509,786. Shell Development Co.

In preparation of yeast-raised bakery products, decreasing rate of staling by mixing into the dough a small amount of reaction products of a polyhydroxy compound and an alkylene oxide which have been partially esterified with a straight chain monocarboxylic acid or reaction products of an alkylene oxide and a partial ester of a polyhydroxy compound and a straight-chain monocarboxylic acid. 2,509,926. Dedicated to the People of the U. S. A. by R. T. Vanderbilt Co., Inc.

In preparation of starch-containing, yeast-raised bakery products, the improvement which comprises incorporating a polyoxyethylene monoester of a higher fatty acid in the dry mix. 2,509,927. Dedicated to the People of U.S.A. by R. T. Vanderbilt Co., Inc.

Corrosion inhibited aqueous composition—an aqueous solution in which the corrosive component is brine and mineral acid containing dissolved therein a glycol ether of an ethanol rosin amine. 2,510,063. Hercules Powder Co.

Adhesive composition—the heat reaction product of a mixture a copolymer of butadiene and acrylonitrile and a phosphoric acid selected from ortho-phosphoric acid and pyro-phosphoric acid. 2,510,090. Arberic T. Di Masi.

Bactericidal and bacteriostatic preparation comprising 1.0 part per million to 5% of 2,3-diphenyl indole dispersed in water. 2,510,428. B. S. Goodrich Co.

Composition for the control of coccidiosis comprising a poultry feed containing m,m'-dinitrodiphenyldisulfide. 2,510,486. American Cyanamid Co.

Medicated poultry and animal feed to control coccidiosis comprising bis-(3-nitrophenyl)-disulfoxide and the normal animal ration. 2,510,487. American Cyanamid Co.

Oleaginous oleophilic mixture of homopolymeric ethers of 1,2-epoxy linear hydrocarbons, suitable for use as a lubricating composition. 2,510,540. Shell Development Co.

Germicidal composition comprising an aqueous suspension of 1-(4-sulfamylphenyl)-3,5-dimethyl-4-nitrosopyrazole. 2,510,726. United States Rubber Co.

Manufacturing cold swelling starch preparations, the solutions of which when dried will produce water resistant layers, by adding a limited quantity of water and an aldehyde to a starch product, and heating above the gelatinizing point while pressing. 2,510,748. Naamlooze Vennootschap: W. A. Scholten's Chemische Fabrieken.

Wax composition for coating fruits comprising paraffin, a vegetable hard wax and a sulfonated mineral oil. 2,510,816. Emma L. Greenstreet.

Antioxidant composition—an organic acid of the class consisting of benzoic, fumaric, tartaric and citric, and an ester of the class consisting of low molecular weight alkyl esters of gallic acid and ascorbyl esters, in which the total of the respective proportions are such as to give a synergistic effect. 2,511,802. Griffith Labs., Inc.

Antioxidant composition—a solid hydrogenated fat in the form of flakes having dissolved therein an antioxidant acid of the class consisting of benzoic, fumaric, tartaric, phosphoric, ascorbic and citric acids and a gallic ester of the class consisting of methyl, ethyl, propyl, butyl, hexyl and lauryl gallates. 2,511,803. Griffith Labs., Inc.

Antioxidant composition—an antioxidant acid of the class consisting of benzoic, fumaric, tartaric, phosphoric, ascorbic and citric acids, a gallic ester of the class consisting of methyl, ethyl, propyl, butyl, hexyl, and lauryl gallates, and a non-toxic polyhydric alcohol. 2,511,804. Griffith Labs., Inc.

Adhesive tacky sealing compound containing polymerized linseed oil, asphalt, residual asphalt oil, clay, asbestos dust and exfoliated vermiculite. 2,511,830. Albert C. Fischer.

Producing, as flameproofing agents, monosulfates of glycols containing 2 to 6 carbon atoms by reacting glycol and sulfuric acid. 2,511,911. Walter M. Fuchs.

Azeotropic mixture of monochlorodifluoromethane and propane for use as a refrigerant. 2,511,993. Carrier Corp.

* From Vol. 634, Nos. 4, 5; Vol. 635, Nos. 1, 2, 3.

Preparing a sodium alumino silicate cation exchange material which, when converted to the corresponding silver alumino silicate, has a capacity for removal of chloride ions. 2,512,053. Permutit Co.

Transmitting power by means of a liquid, consisting essentially of an ester of an alcohol and naphthenic acids. 2,512,255. Gulf Research & Development Co.

Adhesives from blood hemoglobin, formaldehyde, and ethylene diamine. 2,512,418. Armour and Co.

Mineral oil concentrate capable of forming a stable oil-in-water emulsion—mineral oil and a mixture of water-soluble alkali metal salt of a secondary alkyl sulfate and alcohol having hydrophilic and oleophilic properties in admixture with a petroleum-ether soluble fraction of oil-soluble sodium petroleum sulfonate. 2,512,435. Shell Development Co.

Corrosion inhibitors in conversion of cyanamide or dicyandiamide to a derivative thereof by heating while dispersed in liquid ammonia in a closed pressure vessel in which all the internal surfaces in contact with the reaction mixture consist of a ferrous alloy selected from high-chrome or stainless steel, the improvement which consists of protecting the metallic surfaces exposed to the reaction mixture by adding ammonium phosphate. 2,512,590. American Cyanamid Co.

*Textiles**

In cleaning animal fibers the step consisting of subjecting said fibers to a mixture of a sulphuric acid solution and a ketone effective to inhibit ionization, containing not more than 20% water. 2,508,406. Manuel Levin.

In cleaning animal fibers, subjecting said fibers to a mixture of concentrated hydrochloric acid and a ketone effective to inhibit ionization, said mixture containing not over 8% water. 2,508,407. Manuel Levin.

Chemically modifying keratinous material to impart resistance to the action of reducing agents, oxidizing agents and alkalis while preserving the mechanical properties—immersing in a liquid bath containing a reducing agent for keratin (inert to formaldehyde), to rupture disulfide linkages; the bath also containing free formaldehyde, to form new stable alkylene cross-linkages between the keratin peptide chains. 2,508,713. Harris Research Labs.

Modifying a keratinous material to increase its resistance to attack by oxidizing agents, reducing agents and alkalis while preserving its mechanical properties—treating in a bath containing a reducing agent for keratin (inert to alkylene dihalides), to rupture disulfide linkages; the bath also containing an alkylene dihalide, to form new stable cross linkages between the keratin peptide chains. 2,508,714. Harris Research Labs.

Producing nylon and cellulosic yarn patterned fabric by treating selected areas with aluminum chloride, aluminum sulfate, zinc chloride or magnesium chloride; heating to disintegrate said treated lengths of pattern yarns and removing the disintegrated lengths to provide relatively open background areas in accordance with said predetermined pattern. 2,509,146. Sayles Finishing Plants, Inc.

Waterproofing textile fabrics by impregnating with an aqueous emulsion of a mixed ether comprising an aminotriazine condensation product etherified with saturated unsubstituted monohydric aliphatic alcohols, and thereafter heating. 2,509,174. Monsanto Chemical Co.

Composition for impregnating fibrous materials to impart water-repellent properties—heating amides of higher fatty acids or mixtures of higher fatty acids with nitriles and amides of fatty acids containnig the same number of carbon atoms as said fatty acids; thereafter chloromethylating and reacting the resulting chloromethylated product with a tertiary amine. 2,510,007. Sun Chemical Corp.

Insect proofing woolen fabrics with 2,3-diaryl indoles. 2,510,432. B. F. Goodrich Co.

Water-dispersible chemical to impart a water-repellent effect stable to dry cleaning—a quaternary ammonium compound formed by heating: a tertiary amine, an inorganic halogen compound selected from the group consisting of hydrogen chloride, hydrogen bromide, phosphorus trichloride, phosphorus oxychloride, phosphorus pentachloride, thionyl chloride and sulfuryl chloride, and a preformed condensation product of a fatty acid amide and a nitrogenous compound containing a plurality of alkoxymethyl radicals selected from N-alkoxy-methyl derivatives of urea and melamine. 2,510,522. ½ to Montclair Research Corp. and ½ to Ellis-Foster Co.

* From Vol. 634, Nos. 4, 5; Vol. 635, Nos. 1, 2, 3.



Transparentizing textiles—impregnating an open-meshed fabric with an unmixed water-insoluble urea formaldehyde ether resin. 2,510,919. Heberlein Patent Corp.

Forming a water-soluble reaction product of a natural rubber compound and sulfur dioxide, dispersing the insoluble product in aqueous potassium hydroxide and methyl alcohol; boiling to dissolve the dispersed product and acidifying with mineral acid to precipitate a water-soluble reaction product. 2,511,498. Shell Development Co.

Treating cellulose textiles to render shrink-proof, water-repellent, and crease-proof by applying dimethylol urea, an aldehyde, and octadecyloxymethyl pyridinium chloride to the textiles in an aqueous medium and in the presence of a catalyst. 2,512,195. Christian Bener.

Agricultural

Insect repellent mixture—a hydrogenated naphthol and a hydrogenated diphenyl. 2,512,675. Michel Pijoan and Leo A. Jachowski, Jr.

Stabilizing carotene-containing crops subject to oxidative deterioration by applying an aromatic amino inhibitor. 2,513,002. Universal Oil Products Co.

Nitrodithioacetates as fungicides. 2,513,018. Allied Chemical & Dye Corp.

Photochemical preparation of benzene hexachloride. 2,513,092. Solvay & Cie.

Rosin ammonium phenoxides as fungicides. 2,513,429. Hercules Powder Co.

Insecticides produced by reacting trialkyl phosphates with thiophosphoryl halides. 2,514,150. Eastman Kodak Co.

Herbicidal oil composition—a herbicidal hydrocarbon oil, a water-soluble emulsifying agent, and an imidazoline. 2,514,341. Standard Oil Development Co.

Chlorinated terpene sulfone and insecticidal composition containing same. 2,514,564. Hercules Powder Co.

Insecticidal compositions—either hexyl alkyl tetraphosphate or tetra-alkyl pyrophosphate and an alkali-metal fluoride or fluorosilicate. 2,514,621. Eastman Kodak Co.

Insecticide composition—a contact insecticide and a resin, derived from residues of clay tower treated gasoline. 2,514,714. Phillips Petroleum Co.

Den process for the manufacture of finely divided superphosphate fertilizer from phosphate rock acidulated with sulfuric and hydrofluosilicic acids. 2,515,163. Stauffer Chemical Co.

Herbicide concentrate—an alkanolamine salt of a chlorophenoxyacetic acid and a water-soluble methyl cellulose. 2,515,198. Dow Chemical Co.

Insecticidal composition—2-nitro-1,1-bis(p-chlorophenyl) alkanes. 2,516,186. Purdue Research Foundation.

Insect controlling composition—an alkyl 2-thiazolinyl sulfide. 2,516,313. E. I. du Pont de Nemours & Co.

Lecithin stabilizer for DDT petroleum solutions. 2,516,477. Phillips Petroleum Co.

Cellulose

Hydroxyethyl cellulose acetate chloroacetate. 2,512,960. E. I. du Pont de Nemours & Co.

Production of a regenerated cellulose structure by regenerating cellulose xanthate derived from viscose. 2,512,968. E. I. du Pont de Nemours & Co.

Cellulose mixed esters including aceto radicals and higher acyl radicals. 2,512,983. Gevaert Photo-Producten N. V.

Production of viscose solutions. 2,513,652. Industrial Rayon Corp.

Manufacture of hot and cold water soluble cellulose ethers by recovering cellulose ether with NaOH and NaCl, neutralizing with a suitable compound, adding water and a lower aliphatic alcohol, and expressing the bulk of the saline aqueous alcoholic solution. 2,513,725. Imperial Chemical Industries Ltd.

Bleaching a cellulosic material by subjecting to the action of an aqueous solution of hypochlorite and chlorite. 2,513,787. Brown Co.

Recoverig the free acid form of carboxyalkylcellulose by acid treatment of a dried crude etherification reaction mixture. 2,513,807. Hercules Powder Co.

Producing viscose having an opacifying agent dispersed in the viscose without objectionable scum formation. 2,516,113. Rayonier Inc.

Precipitating viscose without substantially regenerating coagulated cellulose xanthate, by treatment with aqueous salt solution. 2,516,316. E. I. du Pont de Nemours & Co.

Ceramics

Optical glass consisting of SiO_2, B_2O_3, BaO, and ThO_2. 2,512,993. Chance Brothers Ltd.

Electric insulating bushing and glass comprising SiO_2, B_2O_3 Li_2O, Na_2O, K_2O, Al_2O_3, CaO and PbO. 2,513,958. General Electric Co.

Forming cellular glass from pulverulent glass, finely divided carbon and an alkaline earth metal sulfate. 2,514,324. Pittsburgh Corning Corp.

Color-correcting titania-bearing porcelain enamels. 2,514,855. Ferro Enamel Corp.

Rendering TiO_2 batches color-uniform. 2,514,856. Ferro Enamel Corp.

Shrinking stretched cellulose acetate fibers with diethyl ketone. 2,515,402. Celanese Corp. of America.

Manufacture of ceramic dielectric elements from barium titanate and a fluoride with complete embedding in powdered zirconia and firing. 2,515,790. General Elecrtic Co.

Transparentizing regenerated cellulose silk with an aqueous acid solution and treating such material with an aqueous caustic alkali, solution. 2,516,083. Heberlein Patent Corp.

Forsterite refractory made from natural magnesium silicates. 2,516,249. Harbison-Walker Refractories Co.

Insulating finishing cement dry mix containing mineral fibers, cementitious ingredients, and binder. 2,516,342. Merwyn C. Randall and George S. Gethen.

Coatings

Making an alkaline type, stable, aqueous coating composition of at least 30% dry solids containing animal glue as the adhesive bonding agent. 2,513,121. Peter Cooper Corporations.

Modifying the properties of a hydrocarbon drying oil recovered from a conjunct polymerization sludge by contacting with a boron trifluoride complex catalyst. 2,513,558. Universal Oil Products Co.

Multiple step phosphate coating process for ferrous metals using baths of an acid phosphate solution containing zinc and ferrous iron. 2,514,149. Parker Rust Proof Company.

Antifouling coating composition of antifouling pigment, rosin, Hercolyn (hydrogenated methyl abietate), chlorinated rubber, diatomaceous silica and naphtha. 2,514,868. H. H. Robertson Co.

Protective liquid composition for metal surfaces containing an aqueous solution of a metal phosphate and phosphoric acid and a small amount of anhydrous zinc ammonium phosphate. 2,514,941. Walterisation Co. Ltd.

Coating composition to detect the presence of water containing an organic dyestuff which develops strong coloration in contact with moisture. 2,515,232. Morris S. Kantrowitz and Earl J. Gosnell.

Coating composition—a pentaerythritol ester of a dehydroabietyl N-substituted carbamic acid and a drying oil. 2,515,290. Hercules Powder Co.

Phosphatizing liquid for phosphate coating articles made of metal capable of reacting with phosphoric acid to form a metal phosphate. 2,515,934. Du-Lite Chemical Corp.

Phosphate coatings on metals by applying a hot aqueous solution of a disodium orthophosphate activating composition, a water soluble organic acid to stabilize the activating composition, and a metal cleaning agent. 2,516,008. Westinghouse Electric Corp.

Treating ferriferous metal surfaces with a manganese phosphate coating bath containing the ions of a tartaric acid other than mesotartaric acid. 2,516,139. American Chemical Paint Co.

Coating composition comprising an alcohol-soluble, heat-convertible, phenolic resin. 2,516,351. Monsanto Chemical Co.

Obtaining bodied oils by heating a drying or semi-drying oil in contact with a resin which contains combined sulfur dioxide. 2,516,590. E. I du Pont de Nemours & Co.

Protecting ferriferous and aluminiferous surfaces by cleaning, treatment wetting agent and applying an organic surface-protective coating. 2,516,685. American Chemical Paint Co.

Protein coating composition immune to bacterial decomposition. 2,516,700. Swift & Co.

Detergents

Stabilizing a sulphated product formed by reacting sulphamic acid with an organic compound by admixing sulphated product with a buffer agent. 2,513,549. Colgate-Palmolive-Peet Co.

Washing glass articles by first washing in an aqueous solution containing free uncombined caustic soda and a glass attack inhibitor, and then in an inhibitor-free solution containing caustic alkali. 2,514,304. Wyandotte Chemicals Corp.

Making an amido-amino-amine soap in which the amide

group is derived from fatty acids and the soap group from rosin acids. 2,514,954. Nostrip Inc.

Noncaking detergent composition—an alkyl aryl sulfonate, an inorganic salt builder, and a sodium silicate. 2,515,577. Wyandotte Chemicals Corp.

Granulating dry powdered detergent mixtures by making a paste to form the continuous phase and converting the free-flowing mass to a unitary mass, and screening. 2,515,880. Mathieson Chemical Corp.

Dyes & Pigments

Monoazo-dyestuffs. 2,512,845. Ciba Ltd.

Dyeing structures prepared from acrylonitrile polymers by treating with an aqueous dye bath containing meta-cresol and a dispersed acetate dye. 2,512,969. E. I. du Pont de Nemours & Co.

Tetrazaporphine pigments containing styrene groups, polymers thereof, and method for their production. 2,513,098. American Cyanamid Co.

Production of dyestuffs and pigments by reacting a monocarboxylic acid anhydride with an S-thioglycollic acid derivative. 2,513,923. Ilford Ltd.

Manufacture of brown pigments by coupling a tetrazotized amine with a 1-aryl-3-methyl-5-pyrazolone. 2,514,236. Imrivative. 2,513,923. Ilford Ltd.

Printing of cellulose acetate using methyl cellulose as a thickener for strongly alcoholic dye solutions. 2,514,410. Celanese Corp. of America.

Printing cellulose acetate fabrics with oxidation dye pastes comprising an alcohol and thickened with methyl cellulose. 2,514,411. Celanese Corp. of America.

Methine dyes containing a pyrimidazolone group. 2,514,649. Eastman Kodak Co.

Dyeing composition—a dispersion of a water-insoluble pigment in an aqueous solution of a water-soluble thermosetting resin, a water-soluble heat-precipitable alkyl cellulose, and a hydrophilic substance. 2,515,170. Interchemical Corp.

Copperable disazo dyestuffs. 2,515,546. J. R. Geigy A. G.

Aliphatic-cyano-azo compounds. 2,515,628. E. I. du Pont de Nemours & Co.

Method of incorporating selenium in cadmium red pigments. 2,515,721. American Cyanamid Co.

Dibenzanthrone dyestuff. 2,515,723. General Aniline & Film Corp.

Ring systems from azo dyes—a polynuclear heterocyclic compound of the class consisting of naphtho-[2,1-e]-s-triazolo-[5,1-c]-as-triazines, and naphtho-[2,1-e]-tetrazolo-[5,1-c]-as-triazines. 2,515,728. General Aniline & Film Corp.

Acid aftertreatment of metallized resorcinol-azo dyes further coupled on the fiber. 2,515,743. General Aniline & Film Corp.

Pyrrole dimethinecyanine dyes. 2,515,905. Eastman Kodak Co.

Pyrrole dimethinecyanine dyes. 2,515,912. Eastman Kodak.

Dyeing a fabric by immersing in an alkaline solution of 3,4-thiolanedithione, removing and subjecting to an oxidizing atmosphere. 2,515,922. Socony-Vacuum Oil Co., Inc.

Aftertreatment with an aldehyde of wool dyed with chromed azo dyes. 2,516,496. Ciba Ltd.

Producing anatase titanium dioxide pigments by roasting a titanium sulfate hydrolysate to convert the hydrolysate to small anatase crystals but insufficient to develop pigment properties, then calcining in the presence of a quantity of phosphate. 2,516,548. American Cyanamid Co.

Inorganic

Preparing Cr_2O_3-hydrogenating metal oxide catalysts by forming homogeneous mixture of chromium trioxide and a metal acetate and decomposing by heating. 2,512,653. Givaudan Corp.

Decolorizing and purifying colored and impure titanium tetrahalide by mixing with a titanyl halide, heating, distilling off the purified tetrahalide. 2,512,807. Douglas Gillison Nicholson.

In the electrochemical conversion of aqueous sodium chlorate solution to sodium perchlorate solution, making an aqueous electrolyte consisting of a saturated solution of sodium chlorate, sodium chromate and magnesium chloride; and electrolyzing between steel and platinum electrodes. 2,512,973. Western Electrochemical Co.

Producing hydrogen by the conversion of hydrocarbons and steam in the presence of a catalyst favorable to carbonization in one stage and the formation of carbon dioxide and hydrogen in another stage. 2,513,022. Phillips Petroleum Co.

Inhibiting the corrosivity of a solution consisting of aqueous sulfuric acid in contact with a ferrous metal surface by the use of boron trifluoride. 2,513,131. Standard Oil Development Co.

Producing oxygen by the liquefaction and rectification of air. 2,513,306. Hydrocarbon Research, Inc.

Catalytic absorbent composed of carbon impregnated with sodium cyanate and copper oxide, particularly adapted for removing both arsine and cyanide chloride from gas. 2,513,508. U.S.A. as represented by the Secretary of War.

Producing sulphur which is insoluble in carbon bisulphide by introducing a stream of sulphur vapor into a cold aqueous quenching bath to condense the sulphur vapor and adding an oxidizing salt during the quenching. 2,513,524. Stauffer Chemical Co.

Producing a nickel-kieselguhr catalyser for refining drying, semi-drying oils and train-oils. 2,513,529. Sana, Narodni Podnik.

Solid finely divided particles of water-reactive hydride of a metal having a coating consisting of a water insoluble organic acid and water repellent compound. 2,513,997. Metal Hydrides Inc.

Dissolving a difficultly soluble metal sulfate by contacting said metal sulfate with an aqueous solution containing dissolved nitrate of tetravalent zirconium. 2,514,115. U.S.A. as represented by the U.S. Atomic Energy Commission.

Production of gases rich in hydrogen. 2,514,340. Standard Oil Development Co.

Manufacture of sulfamates by reacting a liquid, anhydrous tertiary amine, devoid of hydroxyl, amino or imino group substituents, with sulfur trioxide, reacting the resultant mixture with anhydrous ammonia and separating the sulfamate salt from tertiary amine. 2,514,955. Mathieson Chemical Corp.

Producing a readily soluble, granular free flowing, substantially non-caking composition of monocalcium phosphate and free H_3PO_4. 2,514,973. Monsanto Chemical Co.

Preparing a solution of aluminum chloride catalyst of uniform activity. 2,515,138. Standard Oil Development Co.

Making titanium carbide by reacting titanium and carbon in molten iron, at about 2800° C. 2,515,463. Kennametal Inc.

Preparing a stable aquasol containing silica. 2,515,949; 2,515,960; 2,515,961. Monsanto Chemical Co.

Producing a stable sulfur suspension by heating an aqueous suspension of finely divided solid sulfur for about one hour to decrease the damage occasioned by agglomeration upon freezing. 2,516,095. Stauffer Chemical Co.

Improved process for the manufacture of crystalline ammonium sulfate. 2,516,420. Phillips Petroleum Co.

Preparing a titanium sulfate hydrolysis nucleating agent by boiling an aqueous slurry of purified titanium sulfate hydrolysate with an alkali metal hydroxide, filtering, washing the excess alkali from the residue and neutralizing with hydrochloric acid. 2,516,604. American Cyanamid Co.

Treating lithium-sodium phosphate to prepare a halide of lithium by reacting a hot aqueous slurry of the finely divided phosphate with a hot aqueous solution of the corresponding halide of aluminum or iron. 2,516,659. Dow Chemical Co.

Oxygen production. 2,516,717. Standard Oil Development Co.

Leather

Resorcinol-aldehyde tanning product. 2,512,708. E. I. du Pont de Nemours & Co.

In production of leather from hide, tanning a hide with an aqueous solution of a low molecular aliphatic dialdehyde and treating with an aqueous solution of a reactive resin-forming composition. 2,516,283. Adolph H. Winheim and Edward E. Doherty.

Impregnating a dialdehyde tanned hide with a resin of urea, formaldehyde, and a primary amine. 2,516,284. Adolph H. Winheim and Edward E. Doherty.

De-salting pickled stock, such as hides and skins and avoiding inordinate acid-swelling and gelatinization by drumming in an aqueous solution containing a salt of a phosphoric acid capable of coagulating albumen, and crystalline ammonium phosphate. 2,516,806. Hall Labs., Inc.

Metals

Concentration of sulfide ores containing metals such as lead, silver, zinc, iron and gold, by flotation and treatment with chemical collecting agents and activators. 2,512,669. Koppers Co.

Treating an aqueous, stannous plating bath with a quantity of an alkali ferricyanide or ferrocyanide in slight excess of that required to precipitate copper and iron. 2,512,719. E. I. du Pont de Nemours & Co.

Electrodeposition of nickel from an acid bath. 2,513,280. Udylite Corp.

Purifying aluminum by distillation of mixtures with other metals. 2,513,339. Independent Aluminum Corp.

Electroplating tin on ferrous strip by traveling unplated ferrous strip through an alkaline tin plating bath in which the strip is made the anode and then immediately thereafter electroplating the treated unplated ferrous strip with tin in an alkaline tin plating bath where the strip is made the cathode. 2,513,859. Crown Cork & Seal Co., Inc.

Electrolysis of light metals. 2,514,283. U.S.A. as represented by the Secretary of the Navy.

Welding electrode including a core formed of copper-zinc alloy and a coating consisting of: cryolite, fluorspar, lithium chloride, manganese, and sodium silicate. 2,514,386. Charles T. Gayley.

Electrolytically polishing metals of the group consisting of ferrous metals, nickel, brass and aluminum using as electrolyte a mixture of a concentrated aqueous solution of an alkali metal salt and a completely water miscible alcohol. 2,516,105. Edward der Mateosian.

Extracting lithium from spodumene ores, by heating to convert the lapha-spodumene to beta-spodumene, mixing with strong sulphuric acide, roasting, and leaching with an aqueous liquid to extract lithium sulfate. 2,516,109. Metalloy Corp.

Electroplating of chromium-molybdenum alloys by dissolving chromic oxide and molybdenum trioxide in water, adding sulphuric acid, heating and passing electric current through, using a base metal cathode and an anode of molybdenum. 2,516,227. Westinghouse Electric Corp.

Making iron powder by electrolyzing an aqueous acid solution of ferrous perchlorate in water and electrodepositing a friable spongy mass of iron at the cathode. 2,516,515. American Metal Co., Ltd.

Organic

Production of an alkenyl thiophene by reacting a 2-alkyl thiophene with formaldehyde in the presence of an acid catalyst. 2,512,596. Phillips Petroleum Co.

Production of highly branched chain hydrocarbons by copolymerization of a secondary and a tertiary alcohol, hydrohalogenation of the olefinic products, and methylating the hydrohalogenated olefins. 2,512,649. U.S.A. as represented by the Secretary of Commerce.

Production of a pyridine derivative containing a $CH_2=C<$ group by reacting an alkylpyridine formaldehyde in the presence of catalytic amounts of an acid material forming the corresponding hydroxyalkyl pyridine by dehydration to the corresponding pyridine derivative. 2,512,660. Phillips Petroleum Co.

Fluorescent, crystalline compound selected from the group consisting of cuprous nicotine thiocyanate, cuprous nicotine cyanide, and cuprous nicotinamino thiocyanate. 2,512,689. U.S.A. as represented by the Secretary of Agriculture.

Carbamic acid esters of (3-hydroxy-2-pyridylmethyl)amines and salts thereof. 2,512,732. Hoffman-La Roche Inc.

A new composition of matter containing an acetal, $ROCH(CH_3)OR$, having dissolved therein a polymer from esters of the formula $CH_2=C(R_1)COOR_2$ wherein R_1 is hydrogen or the methyl group and R_2 is the hydrocarbon residue of a saturated monohydric aliphatic alcohol. 2,512,771. Rohm & Haas Co.

Pyridylethylpyridinium compounds. 2,512,789. Francis E. Cislak and Leslie H. Sutherland.

N'-butyrylsulfanilamides. 2,512,898. American Cyanamid Co.

Production of polyoxymethylene ethers by forming a nonaqueous solution of formaldehyde or formaldehyde polymers of the polyoxymethylene type dissolved in a saturated aliphatic alcohol, and adding concentrated sulfuric acid to the solution, as a catalyst. 2,512,950. E. I. du Pont de Nemours & Co.

Aminoalkyl sulfonyl piperazines. 2,513,026. Societe des Usines Chemiques Rhone-Poulenc.

Preparing a 1,1-diacyloxy-2-alkene by passing a gaseous stream of the vapors of an acyclic alpha, beta-olefinic aldehyde and of a volatile, aliphatic, carboxylic acid anhydride into contact with a phosphoric acid catalyst. 2,513,090. Shell Development Co.

Oxidation of heterocyclic aromatic nitrogen compounds by reacting nitric acid with a solution containing the N-heteroaryl compound and a relatively small amount of a mercury or copper compound dissolved in sulfuric acid. 2,513,099. Allied Chemical & Dye Corp.

Preparing aryl silicon compounds by heating a monocyclic aromatic hydrocarbon with a fully chlorinated disilane, in the presence of sulphur monochloride. 2,513,123. Linde Air Products Co.

Preparing 3-aminopropanol by treating a liquid mixture of products prepared by heating acrolein in slightly acid aqueos solution with ammonia and hydrogen in the presence of a Raney nickel hydrogenation catalyst. 2,513,132. Shell Development Co.

4-Hydroxy-3-hydroxymethyltetrahydropyran. 2,513,133. Shell Development Co.

3-Thienylacetic acid. 2,513,140. Indiana University Foundation.

Water-soluble acid addition salts of 4,4-diphenyl-6-morpholino-heptan-3-one. 2,513,173. Glaxo Labs Ltd.

Alcohol derived from 1-vinylcyclohexene-3. 2,513,179. Sun Oil Co.

Oxidation of an N-heteroaryl compound containing a pyridine nucleus and having an oxidizable organic grouping by reacting said compound in a sulfuric acid medium with gaseous nitrogen tetroxide. 2,513,251. Allied Chemical & Dye Corp.

Producing diolefins of a purity in excess of 98% by distilling a contaminated diolefin stream in the presence of a high boiling petroleum gas oil. 2,513,252. Standard Oil Development Co.

Triazine derivatives. 2,513,264. American Cyanamid Co.

Production of 2-iminopiperidines and 2-iminopyrrolidines. 2,513,270. The Regents of the University of Michigan.

Acenaphthoyl alkanoic acids. 2,513,273. G. D. Searle & Co.

Recovering aconitic acid from plant extracts by precipitating metal ions, at least a portion of which is barium or strontium. 2,513,287. Donald Walter Collier.

Obtaining organic amino diols by reacting a thionyl halide with a (dl)-reg. amino diol derivative. 2,513,346. Parke, Davis & Co.

1-(Aminoalkyl)-1, 2, 3, 4-tetrahydrofluoranthenes. 2,513,487. Ciba Pharmaceutical Products, Inc.

Production of chlorobutyl esters of carboxylic acids by reacting a mixture of a carboxylic acid, phosphorus trichloride and tetrahydrofuran in the presence of zinc chloride. 2,513,504. Celanese Corp. of America.

Purifying crude cyclopentanone by heating with a small proportion of concentrated phosphoric acid, chromic acid or hydrochloric acid. 2,513,534. U. S. A. as represented by Secretary of the Navy.

Preparing 2-alkyl-4, 6-dihydroxypyrimidines by bringing together an alkali metal amide and an alkyl nitrile in liquid ammonia, removing the excess ammonia, adding a diester of malonic acid, an alkali metal alkoxide, and anhydrous alcohol, whereupon there is formed an alkali metal salt of a 2-alkyl-4, 6-dihydroxy-pyrimidine. 2,513,550. American Cyanamid Co.

Methyl-substituted 2-thenoyl-o-benzoic acids. 2,513,570. E. I. du Pont de Nemours & Co.

Methyl-thiophanthraquinones. 2,513,571. E. I. du Pont de Nemours & Co.

Halogenated (2-thenoyl)-o-benzoic acids. 2,513,572. E. I. du Pont de Nemours & Co.

Nitro-(2-thenoyl)-o-benzoic acids. 2,513,573. E. I. du Pont de Nemours & Co.

Halogen thiophanthraquinones. 2,513,574. E. I. du Pont de Nemours & Co.

Preparation of pelargonyl beta-lactone by reaction of heptaldehyde with a ketene in the presence of benzoyl peroxide. 2,513,615. Shell Development Co.

Compositions containing amylaceous materials and a dihydroxyphospholipid. 2,513,638. Food Technology, Inc.

Alkoxymethoxyalkyl vinyl ethers. 2,513,642. E. I. du Pont de Nemours & Co.

Recovering an alkyllead from the reaction products accompanying its synthesis by steam distilling the reaction mass in the presence of an aqueous solution of an iron salt and sodium thiosulfate. 2,513,659; 2,513,654. Ethyl Corp.

2(3)Benzofuranone derivatives. 2,513,698. Abbott Labs.

Cyclic amino-acetals. 2,513,747. Ciba Ltd.

In production of glutaric acid, the improvement consists of mixing an aqueous solution of alpha-hydroxyaldipaldehyde and aqueous hydrogen peroxide. 2,513,766. Shell Development Co.

Mono-halogen-substituted-thiophanthraquinone. 2,513,790. E. I. du Pont de Nemours & Co.

Organo-metallic complexes of Mn. 2,513,793. Laboratoire Sapos S. A.

Preparing ketenes by heating a long chain monocarboxylic fatty acid with acetic anahydride and, simultaneously adding a cetic anhydride. 2,513,825. E. I. du Pont de Nemours & Co.

β-Aromatic sulfonhydrazide. 2,513,826. General Aniline & Film Corp.

Production of β-acylamido-β-carbalkoxy piperidones. 2,513,831. General Mills, Inc.

Making 2-hydroxy ethyl mercapto thiazoles by heating ethylene oxide with a mercapto thiazole in an inert organic solvent. 2,513,922. Monsanto Chemical Co.

Dimethylchloromethylchlorosilane. 2,513,924. General Electric Co.

Stabilizing an edible fatty oil by adding citric acid and heating to break down a substantial part of the citric acid into aconitic acid and aconitic anhydride. 2,513,948. Southern Cotton Oil Co.

Producing an imine by reacting a primary amine with an imine. 2,513,996. Shell Development Co.

Production of p-nitrobenzene sulfonamido pyrimidines by reacting, in a lower alkyl monocarboxylic acid solution, a tetra-lower alkyl acetal of a 1, 3-oxocarbonylic compound with p-nitro benzene sulfonylguanidine. 2,513,999. General Aniline & Film Corp.

3-Monocarboxylic acids-2-thiono-thiazines. 2,514,004. B. F. Goodrich Co.

Recovering aconitic acid from alkaline earth aconitates by reacting with a small excess of hydrochloric acid in the presence of an aqueous solution of alkaline earth chlorides to produce aconitic acid dissolved in a solution of alkaline earth chlorides, separating from undissolved material, cooling to produce crystals of aconitic acid and purifying. 2,514,010. Morton Salt Co.

Preparing 2, 5-diacyloxy-2, 5-dihydrofurans in which a furan having no strong electronegative groups in the α position is treated with halogen, an organic acid and an acid-binding agent. 2,514,026. Kemisk Vaerk Koge A/S.

Manufacture of acetic anhydride—forming a reactant liquid and molecular oxygen mixture, containing acetaldehyde, acetic acid, acetic anhydride and catalyst, passing said mixture through a tubular reaction zone, discharging into a separator, withdrawing an amount of the reaction mixture from the system for the recovery therefrom of acetic anhydride, and recirculating the remainder. 2,514,041. Distillers Co., Ltd.

Substituted pyrans. 2,514,156. Shell Development Co.

Derivatives of dihydropyran. 2,514,168. Shell Development Co.

Unsaturated ester of a carboxylic acid selected from 3, 4-dihydro-1, 2-pyran-2-carboxylic acid and tetrahydro-pyran-2-carboxylic acid. 2,514,172. Shell Development Co.

Stannous phenylcatecholates. 2,514,179. Firestone Tire & Rubber Co.

Producing stannous catecholates by reacting a stannous salt with normal alkali metal catecholate in a medium in which they are both soluble. 2,514,180. Firestone Tire & Rubber Co.

Trivalent antimony salts of halogen-substituted phenol sulfides. 2,514,186. Firestone Tire & Rubber Co.

Stannous diphenol sulfoxide. 2,514,188. Firestone Tire & Rubber Co.

Stannous catecholate. 2,514,199. Firestone Tire & Rubber Co.

1, 3, 6-Thiadiazepine-2-thiones. 2,514,219. Firestone Tire & Rubber Co.

Aminoplasts containing silicon comprising a condensation product of an aldehyde and a silicon oxyamide. 2,514,268. Monsanto Chemical Co.

Preparing pure carbon monoxide by charging pure carbon dioxide to a fluidized mass of a reduced VI group heavy metal oxide, with subsequent recycling and absorption of fractions. 2,514,282. Standard Oil Development Co.

Production of secondary butyl alcohol from a hydrocarbon mixture containing butanes and butenes free of isobutylene by subjecting the hydrocarbon mixture to extractive distillation in aqueous acetone, removing an aqueous acetone solution of hydrocarbons containing normal butenes, separating the hydrocarbons and contacting with sulfuric acid, extracting a raffinate phase consisting of hydrocarbons containing 40-50 vol. percent normal butenes, distilling the raffinate phase and hydrolyzing the extract to recover secondary butyl alcohol. 2,514,291. Standard Oil Development Co.

Preparation of aliphatic mercaptans by heating mixed aliphatic straight chain, primary, monohydric alcohols, sulfur, and hydrogen in the presence of a TiO_2 gel hydrogenating catalyst. 2,514,299; 2,514,300. Standard Oil Development Co.

Iron carbonyl blended, by means of an organic solvent, with a tall oil soap composition, obtained by saponifying tall oil in a liquid diluent aliphatic alcohol, with an alkylene polyamine, and completing the saponification with potassium hydroxide. 2,514,312. General Aniline & Film Corp.

4-Methyl-6-(3, 4-dioxymethylene phenyl) alpha pyrone. 2,514,325. William R. Warner & Co., Inc.

Preparing dialkyl alicyclic derivatives of the class consisting of 3, 5-dimethylcyclohexanone and 3, 5-dimethylcyclohexanol from isophorone by subjecting the isophorone to a controlled hydrogenolysis reaction in the presence of a hydrogenation catalyst. 2,514,329. Standard Oil Development Co.

Selectively depolymerizing isobutylene polymers which are dimers and trimers to form substantially pure isobutylene monomer. 2,514,332. Standard Oil Development Co.

Isomerization of 2-hydroxy-phenyl-phenyl-methyl-methane to 4-hydroxy-phenyl-phenyl-methyl-methane by heating the former in contact with phenol and a catalyst consisting of aluminum chloride, hydrogen fluoride, or boron trifluoride. 2,514,347. Monsanto Chemical Co.

Preparing a hexahydronaphthalene by passing 1, 4-diacetoxy-decahydro-naphthalene through a tube heated to 400-500° C. 2,514,365. Eastman Kodak Co.

Triacyl nitrophenylpropaneaminodiols. 2,514,376. Parke, Davis & Co.

1-Nitrophenyl, 2-amino, 1, 3-propanediols. 2,514,377. Parke, Davis & Co.

Compound of the group consisting of 1-(3,4-dihydroxyphenyl)-N^2-methyl-ethylenediamine, 1-(3-hydroxyphenyl)-N^2-methyl-ethylenediamine, and the salts thereof. 2,514,380. Hoffman-La Roche, Inc.

Heating 1, 1, 3, 3-tetracyano propane, condensing the effluent vapors, and separating 1, 1-dicyano ethylene from the resulting condensate. 2,514,387. B. F. Goodrich Co.

Catalytic alkylation of a phenol with a mono-olefin admixing the phenol with the mono-olefin and a C_3-C_5 paraffinic hydrocarbon diluent, contacting with a catalyst, fractionating, separating the diluent by introducing an intermediate boiling hydrocarbon having 6-8 carbon atoms. 2,514,419. Phillips Petroleum Co.

Manufacture of diphenylamine by deammoniation of aniline, using an aniline hydrochloride-aluminum chloride catalyst to form diphenylamine. 2,514,430. Koppers Co., Inc.

Amides of fluorinated propionic acids of the formula $CF_2ClCClXCONH_2$ where X is selected from the group consisting of fluorine and chlorine. 2,514,473. American Viscose Corp.

Producing a cycloalkylperhydroindan hydrocarbon by effecting a hydrogen transfer in the presence of an acid-acting catalyst between a branched chain olefin and a para-disubstituted aromatic hydrocarbon having as one substituent a hydrocarbon group containing only one hydrogen atom joined to the carbon atom combined with the aromatic ring to form an arylindan hydrocarbon, hydrogenating to a cycloalkylperhydroindan hydrocarbon. 2,514,546. Universal Oil Products Co.

Production of esters of formyl-amino acids, in which the formyl-amino groups are separated from the esterified carboxyl groups by more than one carbon atom, by hydrogenating esters of cyano-acids in the presence of an ester of formic acid, using a Raney nickel or Raney cobalt catalyst. 2,514,549. Celanese Corp. of America.

Separating natural triglycerides into solid and liquid fractions by dissolving the triglycerides in propyl acetate, ethyl acetate or methyl isobutyl ketone, chilling rapidly to affect precipitation of the more solid triglycerides, removing the solid triglycerides from the liquid triglycerides, and then recovering the glycerides from the solvent. 2,514,608. Emery Industries, Inc.

Acid chlorides of thio and dithiodiglycolic acids. 2,514,640. Shell Development Co.

Preparation of monomeric 2, 2, 4-trimethyl-1, 2-dihydroquinoline by heating a polymer 2, 2, 4-trimethyl-1, 2-dihydro-quinoline under reduced pressure in the presence of a boron trifluoride catalyst. 2,514,648. B. F. Goodrich Co.

Alpha-substituted acrylic acid esters by reacting an ester represented by the formula: $CH_2{=}CH\text{-}COOR$ wherein R is an alkyl group of the formula C_nH_{2n+1}, a benzyl group, or a β-phenylethyl group, with tertiary butyl hypochlorite and an aliphatic acid represented by the formula, R_1COOH, to give a mixture of an ester of an α-acyloxy-β-chloropropionic acid and an ester of a β-acyloxy-α-chloropropionic acid, and thereafter reacting with an organic tertiary amine to give α-substituted acrylic acid esters. 2,514,672. Eastman Kodak Co.

Stabilization of 3, 4-dihydro-1, 2-pyran-2-carboxaldehyde by use of tannic acid. 2,514,688. Shell Development Co.

Diallyloxyalkyl maleates. 2,514,786. Rohm & Haas Co.

Production of alkyl-substituted phenols having no more than three carbon atoms in a single alkyl substituent from polyalkyl substituted phenols by contacting in the vapor phase, with a synthetic catalyst formed by precipitation of the axides of alumina and silica. 2,514,960. Shell Development Co.

Recovery of aldehydes having from 6 to 10 carbon atoms

from crude aldehydic reaction products obtained by the interaction of carbon monoxide, hydrogen and an unsaturated organic compound having an olefinic unsaturation in the presence of a cobalt catalyst. 2,514,961. Shell Development Co.

Separating an alpha-beta unsaturated aliphatic aldehyde from a crude alpha-beta unsaturated aliphatic aldehyde obtained by the oxidation of the corresponding olefin extractively distilling said aldehyde at subatmospheric pressure in the presence of water. 2,514,966. Shell Development Co.

Separating acrolein from a mixture of acrolein, propionaldehyde and acetone, by extractive distillation. 2,514,967. Shell Development Co.

Separating acrolein from a mixture of acrolein and propionaldehyde by contacting water flowing countercurrent to a stream of inert gas to form a gaseous phase consisting of said stripping gas and acrolein and a liquid phase consisting of water containing propionaldehyde. 2,514,968. Shell Development Co.

Preparing 1, 4-dihydroxy-decahydronaphthalene, by catalytically hydrogenating 1, 4-dihydroxy-5, 8-dihydro naphthalene in the presence of finely divided nickel. 2,514,987. Eastman Kodak Co.

Selectively removing tertiary olefins from mixtures of hydrocarbons by absorbing the tertiary olefins with an aqueous solution of a mixture of an organic sulfonic acid and a water-soluble polybasic mineral acid. 2,515,006. Standard Oil Development Co.

Desterolating an oil concentrate by precipitating sterols with methyl alcohol or ethylene glycol. 2,515,041. Eastman Kodak Co.

Fractionating starch into its A- and B-fractions dissolving starch in a mixture of water and aliphatic alcohol, cooling to precipitate the A-fraction, separating, cooling to precipitate the B-fraction and separating the B-fraction. 2,515,095; 2,515,096. Corn Products Refining Co.

Preparing the monoacetate of 1, 3-propanediol by subjecting beta-acetoxy-propionaldehyde to the action of hydrogen in the presence of a nickel hydrogenation catalyst prepared by treating Raney nickel catalyst with an acid-reactive electrolyte, non-poisonous thereto. 2,515,108. Shell Development Co.

Preparing isobutyl hexyl sulfone and isobutyl 2-hydroxyhexyl sulfide by passing an oxygen containing gas into a liquid solution of 2-methylpropanethiol and 1-hexene and containing di-tertiary-butyl diperoxalate. 2,515,120. Shell Development Co.

Acylating furan, by reacting with an acyl halide or carboxylic acid anahydride in the presence of a boron trifluoride-organic complex. 2,515,123. Socony-Vacuum Oil Co., Inc.

Separation of butadiene from hydrocarbon gases with cuprous chloride. 2,515,134. Standard Oil Development Co.

Fluoroalkylthiophenes. 2,515,139. Socony-Vacuum Oil Co., Inc.

Heating a mixture consisting of dicyandiamide and formalin until a solidified product is obtained, and drying. 2,515,143. American Cyanamid Co.

Incorporation of Prussian blue into stand-oil, by treating an aqueous suspension of the said Prussian blue with isobutyl alcohol, distilling to remove the water and isobutyl alcohol, replacing with stand-oil during the course of the distillation until all water and isobutyl alcohol has been removed and then recovering the desired Prussian blue stand-oil mixture. 2,515,145. Shell Development Co.

Producing pyrazoles by reacting in an acid medium a diacetal of a 1, 3-oxocarbonylic compound with a hydrazine. 2,515,160. General Aniline & Film Corp.

4-Hydroxy-3-methyloltetrahydropyran. 23,248. E. I. du Pont de Nemours & Co.

Manufacture of a new N-monosubstituted diimidazole by condensing a solution of an alkali salt of a diimidazole. 2,515,173. Ciba Ltd.

Sulfurizing with elemental sulfur a condensate prepared by reacting alpha pinene with phosphorus sulfide. 2,515,222. Sinclair Refining Co.

In alkylation of naphthalene with ethylene for the manufacture of a mixture containing a high ratio of beta-ethylnaphthalene to alpha-ethylnaphthalene the steps of heating in contact with a silica-alumina catalyst. 2,515,237. Koppers Co., Inc.

α-Acylamido-β-hydroxy nitro substituted propiophenones. 2,515,239. Parke, Davis & Co.

Nitrophenyl ketonic amino alcohols. 2,515,240. Parke, Davis & Co.

Nitrophenyl acylamino acyloxy ketones. 2,515,241. Parke, Davis & Co.

Making thiophenethiol, by preheating sulfur and a C_4 hydrocarbon selected from the group consisting of normal butane, normal butenes, and butadienes. 2,515,242. Socony-Vacuum Oil Co., Inc.

Preparing a guanidine sulfate by carbon dioxide, ammonia, and sulfur trioxide. 2,515,244. American Cyanamid Co.

Polyfluoro aliphatic diamines. 2,515,246. Purdue Research Foundation.

Hydrolysis of 2, 5-dihydrofurans to produce unsaturated dicarbonyl compounds. 2,515,304. Imperial Chemical Industries Ltd.

Reacting an ester of a 2, ξ, ξ, ξ-tetrahalogenoalkanoic acid with hydrogen in the presence of a hydrogenation catalyst and thereby effecting selective replacement of the 2-halogen atom with hydrogen. 2,515,306. United States Rubber Co.

Production of N-acetylanthranilic acid by reaction of N-acetylanthranilic-acetic anhydride with anhydrous acetic acid. 2,515,320. Heyden Chemical Co.

Treating a sugar-containing solution by adding a 70-30 to about a 30-70 mixture of a magnesium compound-containing material and the combined waste products resulting from the manufacture of Portland cement clinker. 2,515,353. John J. Naugle.

Alkine-SO_3 addition product. 2,515,444. Allied Chemical & Dye Corp.

Reacting valine having an N-substituent of the formula-COX where X is an α-halogenated lower alkyl group, with pyridine, and reacting addition compound with acetic anhydride thereby forming a 2-alkyl-4-isopropylidene-5(4)-oxazolone. 2,515,465. Merck & Co., Inc.

Preparing 17-ketosteroids by reacting 20-keto pregnanes with alkyl-nitrite in the presence of a catalyst selected from anhydrous mineral acids, boron trifluoride, alkali metal alkoxides, alkali metal amides and alkali metal hydrides and hydrolyzing the formed oxime with a mineral acid. 2,515,482. Merck & Co., Inc.

Reacting 4-([(2-amino-4-hydroxy-6-pteridyl)methyl]formylamino)benzoic acid with formic acid and recovering 4-([(2-formylamino-4-hydroxy-6-pteridyl)-methyl] formylamino) benzoic acid. 2,515,483. Merck & Co., Inc.

Photochemical preparation of polypeptides by forming an aqueous solution of a diketopiperazine and an aliphatic peptide and subjecting to irradiation by ultraviolet light. 2,515,515. David S. Kahn.

Production of nicotinic acid by heating an admixture of 3-methylpyridine hydrochloride, chlorine and water. 2,515,593. Shell Development Co.

Production of 2, 4-pentadienoic acid by passing ketene into acrolein in the presence of sodium acetate. 2,515,595. Shell Development Co.

3-Amino-1,2 diphenyl-propanol-1. 2,515,700. American Cyanamid Co.

Treating tall oil to improve color and odor by heating with metallic zinc. 2,515,739. American Cyanamid Co.

Dehydroxylating castor oil by mixing the oil with water diluted sulfuric acid solution as a catalyst, and heating in a vacuum to remove volatilized matter. 2,515,797. Maytag Co.

Sulfonated 1,1,1-trichloro-2,2-bis(p-chlorophenyl) ethane. Ernest Segessemann and Nicholas M. Molnar.

In making tetraethyl lead by reaction of ethyl chloride on lead mono-sodium alloy, the improvement comprises carrying out the reaction in the presence of an aliphatic aldehyde. 2,515,821. E. I. du Pont de Nemours & Co.

Compounds having a carboxyalkylthio or a carbalkoxyalkylthio group bonded to silicon through hydrocarbon. 2,515,857. E. I. du Pont de Nemours & Co.

Producing secondary and tertiary amines, by contacting an aliphatic alcohol of from 1 to 20 carbon atoms and an aromatic amine containing at least one hydrogen atom bonded to the amino nitrogen atom, with bauxite containing between 4% and 22% of naturally occurring iron oxide. 2,515,872. Porocel Corp.

Arylaminomethine compounds selected from the group consisting of 4-keto-2-thiotetrahydro-oxazoles and 5-pyrazolones. 2,515,878. Eastman Kodak Co.

Alpha-(beta-ionylideneacetyl)-beta methyl glutaconic anhydride. 2,515,901. William R. Warner & Co., Inc.

Bis(hydroxyphenyl) compounds. 2,515,906. Gulf Research & Development Co.

Bis(hydroxyphenyl) alkanes. 2,515,907. Gulf Research & Development Co.

2-Methyl-5-phenylbenzothiazole and quaternary salts thereof. 2,515,913. Eastman Kodak Co.

3,4-Thiolanedithione. 2,515,927. Socony-Vacuum Oil Co., Inc.

Obtaining a valuable sulfur-containing liquid, by preheating sulfur and an aliphatic hydrocarbon of from 4 to 6 carbon atoms to yield tar, separating the tar, contacting the tar

with a low boiling organic solvent. 2,515,928. Socony-Vacuum Oil Co., Inc.

Halogenated derivatives of lysergic acid, isolysergic acid, and their derivatives. 2,516,002. Sandoz A. G.

Biphenyl compounds. 2,516,098. Parke, Davis & Co.

Ester-acetal of a polyhydric alcohol selected from the group consisting of glycerol, pentaerythritol and polypentaerythritols, in which at least two but not all of the hydroxyl groups of the alcohol have been acetalized in pairs by an aliphatic aldehyde or benzaldehyde and at least one of the other hydroxyl groups has been esterified by a resin acid selected from d-pimaric acid, levopimaric acid, abietic acids or Palkin acids. 2,516,104. Heyden Chemical Corp.

Compound selected from the group consisting of N-β-hydroxyethyl-N-2, 2, 2-trifluoroethylaniline and N-β, γ-dihydroxy-propyl-N-2,2,2-trifluoroethyl-m-toluidine. 2,516,-106. Eastman Kodak Co.

Compound selected from the group consisting of N-β-hydroxyethyl-N-2,2-difluoroethylaniline, and N-β, γ-dihydroxy-propyl-N-2,2-difluoroethyl-m-toluidine. 2,516,107. Eastman Kodak Co.

Aralkoxyalkylimidazolines. 2,516,108. Ciba Pharmaceutical Products Co.

Metal and phosphorus and high sulphur product produced by heating a phosphorus and sulphur-containing organic compound with a combining amount of a metal salt of carbon-sulphur acid of the class consisting of thiocarbonates and xanthates. 2,516,119. Continental Oil Co.

Preparing 7-hydroxyphenothiazone-3 by heating phenothiazine with sulphuric acid. 2,516,120. U.S.A. as represented by the Secretary of Agriculture.

Separating organic acids as their corresponding alkali salts from a mixture of water-insoluble oxygenated organic compounds. 2,516,127. M. W. Kellogg Co.

Naphthalene compounds. 2,516,130. Parke, Davis & Co.

Preparing N-carboanhydrides of alpha-amino acids by reacting thionyl chloride with the dialkali metal salt of a hydrocarbon alpha-carboxy-aminocarboxylic acid. 2,516,-145. E. I. du Pont de Nemours & Co.

Isomerizing para alkyl phenols to ortho alkyl phenols in the presence of a catalyst comprising silica gel activated by impregnation with alumina. 2,515,152. Phillips Petroleum Co.

Manufacture of compounds of the group consisting of acrylic acids and their salts and esters having a cyclic group attached to each of the α- and β-carbons. 2,516,153. Schering Corp.

Reacting an acrylic ester, an alkyl formate, and an alkali metal alcoholate to produce a product containing the corresponding α-(metallo-formyl)-β-alkoxy-propionic ester; condensing said reaction product with acetamidine or salts thereof to produce 2-methyl-4-hydroxy-5-alkoxy-methyl-pyrimidine. 2,516,158. Merck & Co., Inc.

Heating α-acetamido-β,β-dimethyl-acrylic acid with thioacetic acid, to produce N:S-diacetyl-dl-penicillamine; heating this product with a mixture containing acetic acid and dilute aqueous hydrochloric acid to produce dl-penicillamine hydrochloride; and reacting with pyridine to form dl-penicillamine. 2,516,240. Merck & Co., Inc.

Dextrorotatory stereoisomers of penicilloic acid G, 5,5-dimethyl-2-phenylacetamidomethyl-4-carboxy-thiazolodine, by reacting a compound selected from the group which consists of d-penicillamine with a compound selected from the class which consists of phenylacetamido-acetaldehyde and the dibutyl acetal. 2,516,251. Merck & Co., Inc.

3,11-diketo-20,21-dioxypregnanes. 2,516,258. Merck & Co., Inc.

Oxidizing 3,11-diketo-17-hydroxypregnanes with an agent selected from chromic acid, periodic acid, sodium periodate and lead tetra-acetate, to produce a mixture comprising 3,11,17-triketo-etiocholane and 3,11,20-triketo-17-hydroxy-pregnane. 2,516,259. Merck & Co., Inc.

Obtaining a stable, dry addition salt of an acid of formula HA with 3-amino-4-hydroxyphenylarsen-(anhydro)-oxide by freezing an aqueous solution of said salt and completely subliming away the ice under vacuum, A of said formula representing the anion of a non-toxic acid. 2,516,-276. Parke, Davis & Co.

Producing tetrasubstituted piperazines by hydrogenating a monoxime of an alpha-diketone in an organic acid medium and in the presence of a palladium catalyst. 2,516,289. E. I. du Pont de Nemours & Co.

Producing O-alkylimino ethers. 2,516,293. E. I. du Pont de Nemours & Co.

Fluorine-containing azo compounds. 2,516,302. Eastman Kodak Co.

Azo compounds containing fluorine. 2,516,303. Eastman Kodak Co.

Polyfunctional esters. 2,516,306. General Mills, Inc.

Synthesis of tryptophane. 2,516,332. General Mills, Inc.

Manufacture of 5-amino-1-pentanol by reacting 2-hydroxy-pentamethylene oxide with a mono- or dialkyl amine. 2,516,337. Sharples Chemicals Inc.

Recovering mannite from seaweed and fuci materials by extracting the material with water, reacting the mannite in the extract with an aliphatic carbonyl compound, hydrolyzing the tri-acetal-compound formed with a diluted acid, and separating the mannite so reformed. 2,516,350. Nils Andreas Sorensen and Kare Kristensen.

Separating beta and gamma-picolines from a mixture that is free from lutidines, by treating the mixture with phthalic acid in acetone; separating crystalline gamma-picoline phthalate and recovering pure gamma-picoline; treating the beta-rich filtrate with zinc sulphate solution to form complex compounds of the picolines; separating a crystalline complex compound of beta-picoline and zinc sulfate and recovering beta-picoline from the separated crystalline complex. 2,516,370. Upjohn Co.

Fluoromethylpyridines. 2,516,402. Purdue Research Foundation.

1-naphthoxy-2-chloro-1,1,3,3,3-pentafluoropropane. 2,516,403. Purdue Research Foundation.

Reaction product of hexachlorocyclopentadiene and chlorsulfonic acid. 2,516,404. Purdue Research Foundation.

Producing synthetic syringaldehyde, which comprises: (1) isomerizing 3,5-dimethoxy-4-hydroxyallylbenzene by heating in strong alkali to produce 3,5-dimethoxy-4-hydroxy-propenylbenzene; (2) oxidizing the product by heating with an oxidizing agent in aqueous alkali to produce syringaldehyde. 2,516,412. Sulphite Products Corp.

Extracting proteins by dissolving in a concentrated aqueous solution of a lower alkyl quaternary ammonium salt, separating the solution thus formed, regenerating the proteins by diluting the solution. 2,516,531. William J. Shibe, Jr.

N-dimethylaminoethyl-N-alkoxy-ethyl (or benzyloxyethyl)-anilines. 2,516,560. Socete des Usines Chimiques Rhone Poulenc.

In making a salt of an aromatic-oxy-aliphatic acid by reaction between salts of a chloroaliphatic acid and a phenol, the steps of forming an aqueous solution of a phenol, a water-soluble salt of a monochloroaliphatic monocarboxylic acid, and an alkali; heating, and adding alkali as necessary to maintain pH. 2,516,611. Dow Chemical Co.

Derivatives of dihydropyridine. 2,516,625. Shell Development Co.

Producing 2,2,4,4,6-pentamethyltetrahydropyrimidine, by reacting ammonia with acetone in the presence of an acidic condensation catalyst. 2,516,626. Shell Development Co.

In preparation of allyl acrylate by the condensation of acrolein in the presence of aluminum isopropoxide in an aromatic hydrocarbon solvent, the improvement comprises furnishing the acrolein reactant with iso-octane saturated with water. 2,516,627. Shell Development Co.

In preparing partial ethers of granule, cereal starch by direct alkylation with alkylene oxides, the steps of bringing into contact with granule, cereal starch an alkylene oxide in which the oxygen is linked to adjacent carbon hydrogen groups, and agitating. 2,516,632. Penick & Ford, Ltd., Inc.

In reacting unswollen, granule starch with an alkylene oxide in a water suspension containing a water-soluble salt of an alkali metal or alkaline earth metal and soluble alkali yielding a hydroxyl ion concentration promoting the reaction, and filtering and drying the starch. 2,516,633. Penick & Ford, Ltd., Inc.

Intimately dispersing soluble alkali in a material selected from the group consisting of an unswollen granule starch and a cereal starch dextrin and then gradually bringing into contact with a monofunctional epoxide of a lower aliphatic hydrocarbon. 2,516,634. Penick & Ford, Ltd., Inc.

5-(beta-bromoethyl) hydantoin. 2,516,635. Dow Chemical Co.

Preparation of ethyl chloride from ethyl alcohol by reacting liquid ethyl alcohol with hydrochloric acid in the presence of an aqueous solution of a metal chloride catalyst and in the presence of a volatile agent selected from the group consisting of benzene, cyclohexane, ethylene dichloride, trichloroethylene, and carbon tetrachloride. 2,516,638. Dow Chemical Co.

Organic peroxide having the general formula $(R_1)_3\,COOR_2$, wherein R_1 is an organic radical and R_2 is an alkene or cycloalkene radical. 2,516,649. Shell Development Co.

3,5-substituted 4,6-dimethyl-2-pyridones. 2,516,673. Wyeth Inc.

Substituted glycinamide. 2,516,674. Wyeth Inc.

Producing acetals of aldehydes containing at least four carbon atoms. 2,516,679. General Aniline & Film Corp.

Producing at least one of a monomeric acyl-substituted alde-

hyde and ketone by mixing a lower aliphatic alpha, beta-olefinic aldehyde and an aliphatic diketone having two ketonic carbonyl groups directly linked to a single carbon atom. 2,516,729. Shell Development Co.

Refining soybean oil, heating, separating lecithin, phosphatides, and fatty acids by passing an electric current through spaced electrodes, leaving a deodorized and decolorized soybean oil. 2,516,733. Henry M. Unschuld.

Semicontinuous production of tertiary olefinic monohydric alcohols corresponding acetylenic alcohols by partial hydrogenation of an aqueous solution of a tertiary monohydric acetylenic alcohol in the presence of a palladium catalyst. 2,516,826. Commercial Solvents Corp.

Catalyst which assists in the production of vanillin, residual sludge in a reaction mixture in which vanillin has been produced by subjecting lignin-containing substances in an alkaline copper sulfate medium to the action of a finely dispersed gas containing free gaseous oxygen. 2,516,827. Ontario Paper Co. Ltd.

Compound selected from the group consisting of 5-fluoronicotinic acid, alkali and alkaline earth metal salts of 5-fluoronicotinic acid, acid addition salts of 5-fluoronicotinic acids, 5-fluoronicotinamide, and acid addition salts of 5-fluoronicotinamide. 2,516,830. Eli Lilly and Co.

Compound selected from the class consisting of di-(2-carboxyphenylthio)-p-carbamido-phenylarsine, di-(carboxymethylthio-p-carbamido-phenylarsine, and the sodium, potassium, calcium and ammonium salts thereof. 2,516,831. Eli Lilly and Co.

Separation of crystals from solutions containing HCN. 2,516,882, American Cyanamid Co.

Paper & Pulp

Bleaching wood pulp containing ground wood fibers by preparing a wet lap from the pulp with alkaline peroxide bleaching solution, disintegrating the lap immediately and permitting the fibers of the disintegrated lap to bleach in the damp condition. 2,513,344. Buffalo-Electro-Chemical Co.

Bleaching sulphate wood pulp by treating the pulp sequentially, without intervening washing, with hypochlorite and chlorine and finally treating the pulp with chlorine dioxide. 2,513,788. Brown Co.

Bleaching moist felted groundwood pulp by impregnating with an alkaline peroxide solution which effects self controlled bleaching. 2,514,503. Buffalo-Electro-Chemical Co., Inc.

Paper free of frilling, for photographic purposes by surface sizing of waterleaf high α-cellulose paper with a composition consisting of aqueous starch, a water-soluble wet strength-imparting resin selected from melamine-formaldehyde and urea-formaldehyde resins and either citric or tartaric acid. 2,514,689. Eastman Kodak Co.

Hypochlorite bleaching of ground wood of the type rich in tanning and color bodies. 2,516,664. West Virginia Pulp and Paper Co.

Petroleum

Improved hydrocarbon synthesizing catalyst formed by spraying molten iron, containing a promotional amount of an activating material, onto spherical particles of aluminum. 2,512,608. Standard Oil Development Co.

Oil-well sealing compositions—water; hydraulic cement; a water-soluble, base-catalyzed, hardenable phenol-formaldehyde resin and a free water-soluble lower aliphatic aldehyde having not more than 6 carbon atoms. 2,512,716. Union Carbide and Carbon Corp.

Lubricant—mineral lubricating oil and a stable, non-corrosive product obtained by reacting ammonium hydrosulfide-hydrogen sulfide with an oxygen-containing organic compound. 2,512,784. Shell Development Co.

Lubricant composition comprising a major amount of a mineral lubricating oil and an amount of an ester of a monohydric alcohol and an oxidized sulfurized fatty acid sufficient to confer improved pressure carrying properties. 2,513,060. Gulf Oil Co.

Antioxidants for mineral oil lubricants by heating benzaldehyde or diethylaminobenzaldehyde or dimethoxybenzaldehyde, N-dimethylaniline and formaldehyde in the presence of an activated clay catalyst and recovering the condensation product. 2,513,061; 2,513,062; 2,513,063. Gulf Oil Corp.

Isomerizing aliphatic paraffin hydrocarbons having at least 4 carbon atoms per molecule by contacting said hydrocarbons simultaneously with hydrogen fluoride and boron trifluoride in the presence of an added low boiling isoparaffin cracking inhibitor. 2,513,103. M. W. Kellogg Co.

Stabilized gasoline containing tetraethyl lead as anti-knock reagent and a lead salt of a fatty acid as stabilizing agent. 2,513,669. Anglo-Iranian Oil Co., Ltd.

Improved lime base grease composition—lubricating oil, lime soaps of fatty acids in grease forming amounts, a calcium salt of a monocarboxylic fatty acid having not more than 6 carbon atoms, and a lime salt of phosphoric acid. 2,513,680. Socony-Vacuum Oil Co., Inc.

In a cyclic process for the production of synthesis gas by the reaction of methane with a solid reducible metal oxide in the absence of steam wherein the reaction is periodically discontinued and the resulting reduced metal oxide is reoxidized, the improvement comprises effecting the reaction in the presence of an alkali metal oxide catalyzer. 2,513,994. Shell Development Co.

Lubricant comprising a mineral lubricating oil and a compound having the formula, $R_1\ R_2\ N-N=O$, wherein R_1 and R_2 are hydrocarbon radicals. 2,514,017. Shell Development Co.

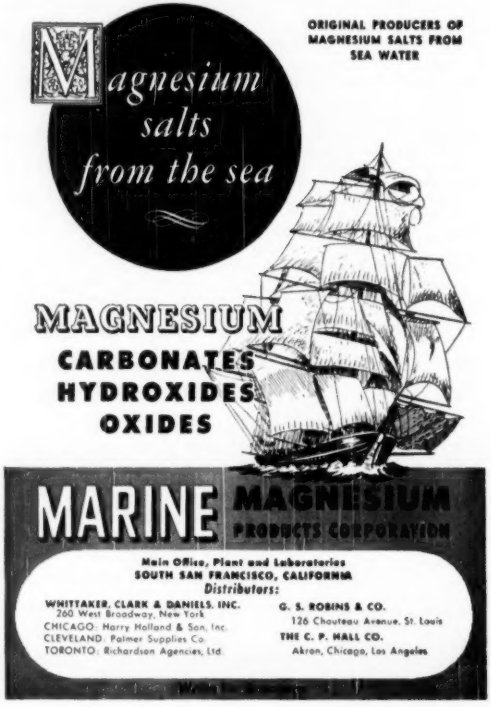
Gasoline fuel comprising a leaded mixture of gasoline hydrocarbons and an N-nitroso di(aliphatic hydrocarbon) secondary amine. 2,514,018. Shell Development Co.

Lubricating composition normally relatively liquid and mobile which has the property of setting up to a solid grease consistency upon being subjected to mechanical working, consisting of a mineral lubricating oil containing grease-forming proportions of a soap-salt thickener prepared by mixing about one molar proportion of fatty acid of the C_{12} to C_{22} range, at least one-half molar proportion of C_2 to C_4 fatty acid, and an alkali metal hydroxide and heating to obtain a fine dispersion of said soap-salt in said oil. 2,514,286. Standard Oil Development Co .

Distillation of C_1-C_6 hydrocarbon mixtures. 2,514,294. Standard Oil Development Co.

Lubricating composition resistant to hydrocarbon solvents—a polyhydric alcohol having lubricating properties, selected from the group which consists of glycerine, C_1 to C_4 glycols and the lower monoalkyl ethers thereof, combined with water (to increase fluidity), zinc stearate, and a sulfonate type wetting agent which has a greater affinity for the surfaces being lubricated than said solvents. 2,514,296. Standard Oil Development Co.

Improved process for the noncatalytic conversion of a gaseous saturated hydrocarbon to a gaseous unsaturated hydrocarbon. 2,514,497. Phillips Petroleum Co.



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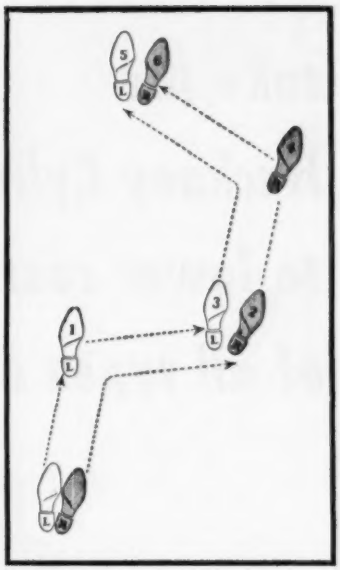
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U.S.I. CHEMICAL NEWS

October ★ A Monthly Series for Chemists and Executives of the Solvents and Chemical Consuming Industries ★ 1950

Reaction with Phosgene Important in Manufacture Of Many Intermediates

U.S.I.'s Wide Experience With Phosgenation Reactions Available to Customers

U.S.I. production facilities and manufacturing know-how can result in substantial savings to chemical manufacturers who wish to take advantage of U.S.I.'s long experience with phosgenation reactions. The importance of phosgene as a reagent in the production of a wide range of intermediates is well known. The two reactive chlorine atoms in the molecule makes possible the ready coupling of other organic molecules while simultaneously introducing the keto structure. Alcohols react with phosgene to form chlorocarbonates (chloroformates) and these in turn react with alcohols to form dialkylcarbonates. Phenols similarly form chlorocarbonates and diaryl carbonates. The chlorine atoms of phosgene react with amines forming carbonyl chlorides which upon reaction with other amines yield substituted ureas. Aromatic hydrocarbons react with phosgene to yield ketones.

U.S.I. has long employed the first of the above reactions to produce ethyl chloroformate and diethyl carbonate. These materials are offered as regular products with rigid specifications. In addition, however, U.S.I. has a background of experience in laboratory, pilot plant and commercial scale on other products resulting from phosgenation reactions. Prospective users are invited to discuss with U.S.I. their requirements for such materials.

Fiber Properties Studied By New Micrograph Method

A host of fiber properties not studied by optical means, such as dyeing of the fiber, lustre, molecular orientation, and physical structure, can now be investigated by recently developed replica techniques for electron microscopy, a research scientist states. Some of the micrographs prepared by the new technique may be interpreted simply as direct, magnified images of obliquely illuminated surfaces, but they are actually radiographic images made by electrons transmitted through a very thin metallic film exactly duplicating the contours of the fiber surface, according to the scientist.

The appearance of oblique illumination is said to be achieved by evaporating a metal of high atomic number and condensing it onto the surface. In a sense, the scientist points out, the surface has been "illuminated" with a beam of metal atoms rather than light.

Superior Replicas Prepared

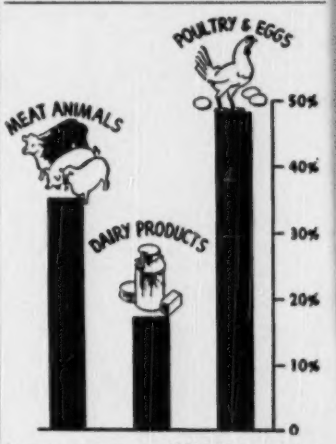
He states that until recently fiber replicas were usually prepared by making an impression of the fiber surface in a thermoplastic material followed by deposition of silica onto this mold with subsequent dissolution of the mold in a suitable solvent. For fibres which readily dissolve in organic solvents, however, superior replicas reportedly may be prepared by depositing the replicating film directly on the fiber.

U.S.I. APF Supplement Compares Favorably With Antibiotic APF Products

University Tests Show U.S.I. APF Supplement Gives Best Grade of Dressed Broiler of All Rations Studied

Farmers may now obtain uniform growth increases in farm animals which are fed rations containing an Animal Protein Factor supplement made by a primary fermentation process, it was reported by U.S.I. scientists at the recent fall meeting of the American Chemical Society.

This new product has been demonstrated in various laboratory tests to perform at least as well as other commercial materials, including APF supplements from antibiotic by-products. In addition, practical tests conducted at a leading university showed that the U.S.I. APF supplement gives the best grade of dressed broiler of all rations that were studied.



Increases over pre-war (1935-39 averages) in production of livestock and livestock products. The tremendous growth of the feed industry in the past ten years stems from these farm-production trends.

Graph courtesy of Feeds Illustrated—Prepared by Grantham Graphics

Similarly, at another prominent university, experiments on chicks demonstrated that the U.S.I. product can completely replace fish solubles in many practical formulations, and that it gives a better growth response than is obtained by the use of vitamin B_{12} alone.

Feed Booklets Available

A number of valuable U.S.I. booklets on feed are available to feed manufacturers: "The Road Ahead with APF and Antibiotics," "New Trends in Animal Nutrition," and "Proteins and Amino Acids in Animal Nutrition." For copies, write on company letterhead to the Editor, *U.S.I. Chemical News*.

Protruded Metal Packing Proves Highly Efficient

Comparative tests in distillation equipment indicate that new protruded metal packing is more efficient and economical than any of the previously known "efficient" packings. Key to the new packing's greater efficiency is its property of self-wetting on exposure to liquids, an advantage over types that require flooding for complete wetting.

Possible Use in Liquid Extraction

This automatic wetting property is not the same for all liquids with all metals. Protruded nickel packing, for example, is wetted by hydrocarbons but has almost no affinity for water. Research is anticipated to investigate the extent to which these differences can be used as driving forces in liquid extraction and similar processes. Experiments also indicate that the new packing produces good results in vacuum distillation.

Equipment Size Can Be Increased

The new packing's automatic wetting property is said to give it another advantage in that it suffers less from scaling up equipment size and increasing column diameter than any other packing known. Additional research on reflux distribution methods for large distillation columns is also reported to have produced very promising developments.

Find Antihistaminics Have Antifungal Action

A number of cases of athlete's foot are claimed to have responded to applications of a cream containing one of the antihistaminic compounds. Tests on this and another antihistaminic compound indicate that they possess properties which are inhibitory to pathogenic fungus species and that their activities are therefore not limited to the alleviation of allergic manifestations incited by these fungi.

Publishes New Booklet On Industrial Water Problems

Industrial water problems of all kinds—procurement, treatment, usage, and disposal—and the facilities for coping with them are discussed in a new booklet published by a Pennsylvania company.

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October ★ **U.S.I. CHEMICAL NEWS** ★ 1950

Chlorophyll Found Useful In Peptic Ulcer Therapy

According to a recent announcement, a new chlorophyll preparation has been obtained which promises to become an important factor in the treatment of peptic ulcers. For some time it has been known that water soluble chlorophyll possessed tissue-stimulating action and that it promoted healing of chronic wounds. It has also been thought that this action could be used to advantage in the treatment of peptic ulcers, provided the chlorophyll could be brought into contact with the site of the lesion. Now, with the announcement of this new chlorophyll preparation, these requirements seem to be met.

Complete Healing in 58 Out of 79 Cases

A total of 79 patients with X-ray-proved duodenal and gastric ulcers were treated with this new chlorophyll preparation without the usual restrictions on diet, smoking, alcoholic beverages, or daily activity. Out of the total number of cases, 58 showed on X-ray examination complete healing in from 2 to 7 weeks. Furthermore, of the 58 cases showing complete healing, 20 cases had no recurrence of symptoms up to 11 months after treatment.

Issues New Bibliography On Container Coatings

A recently issued bibliography on container coatings is said to provide abstracts of some 150 patents and research papers on food and other types of container coatings, published since 1941. Author, inventor, and patent indexes are included.

New Booklet Offered On Phosphate Coatings

A valuable new booklet discussing the latest developments in Phosphate Coatings is now available. It contains 12 pages of detailed information on phosphate coating chemicals for use in paint-bonding, rust-proofing and protecting friction surfaces, and for improving drawing and extrusion.

Polyamide Resins In Water Suspension

Polyamide resins, widely used as heat-sealing adhesives and resistant coatings, are reported available now in water suspensions. A new process, in the pilot-plant stage at the present time, is said to overcome difficulties encountered previously in attempts to make water dispersions of the polyamides.

The new suspensoids are described as cationic and remarkably stable, and are claimed not to coagulate even when repeatedly frozen and thawed. They are heat-sealing and adhere firmly to most materials, according to the makers, and will fuse to become resistant to water, water-vapor, and oil. They are said to dry rapidly and will not block even under severe pressure. The suspensoids are reported available in two grades, one an essentially uncompounded suspensoid and the other modified for superior abrasion-resistance and for producing heat-seal bonds with improved stability at low temperatures.

New Collection of Reports On Utilization of Wood

A comprehensive collection of reports on wood utilization is reported available from the government. The collection is said to include 24 presentations dealing with wood research by the armed forces; the mechanisms of wood lignification and deterioration; utilization of wood for packaging; as a construction material in timber or "sandwich" form, and as conversion products; and wood requirements for aircraft, shipbuilding, and other fields. Some papers deal with fungus and insect problems, particularly with the marine borer.

Synthetic Albumen Process

A new Norwegian process for producing synthetic albumen from codfish waste has been announced. The product, claimed to contain 80 to 90 per cent pure protein reportedly can be used for baking, ice cream, mayonnaise, and pharmaceutical products, as well as in textile and paint industries.

TECHNICAL DEVELOPMENTS

Further information regarding the manufacturers of these items may be obtained by writing U.S.I.

"Liquid sandpaper," a chemical compound to replace sanding of surfaces before refinishing, removes wax, grease, and polish from hardwood floors and painted and enameled surfaces with a single wiping, according to the makers. It reportedly dulls gloss and provides a flat undercoat. **(No. 609)**

To protect against solvent fires involving ether, esters, acetone, alcohol, and related solvents, a new foam charge effectively covers and snuffs out flames in seconds, insulating threatened areas and preventing flashbacks, the makers claim. **(No. 610)**

A new snap-on spout for paint cans is said to permit faster stirring of full paint cans without slopping over edge and to make pouring easier. Spout is a natural resting place for the wet brush. Easy to clean, it reportedly may be used over and over. **(No. 611)**

A new-type light filter is claimed to block dingy red and yellow light from the rays of incandescent light bulbs. The filter, attached to a magnifier which nearly doubles light intensity, can be turned to any position on the bulb to focus light as needed. **(No. 612)**

To permit closed bin tops and bin storage of materials previously considered impossible to feed from bins, a new pneumatic device is claimed to provide direct action on bin contents rather than the bin, positive extrusions, easy installation, vibrationless operation, safety, and economy. **(No. 613)**

A new combination heatable flask and separatory funnel may be used, it is reported, for weighing, drying, dissolving, mixing, concentrating, precipitating, cooling, heating, melting, boiling, distilling, evaporating, decanting, and crystallizing without need of transferring to other flasks. **(No. 614)**

A new antiseptic liquid hand soap, developed for the special use of food handlers and industrial workers, is said to contain hexachlorophene to help reduce bacterial flora on the skin and an emollient and skin-softener to help lessen certain skin irritations caused by frequent hand washing. **(No. 615)**

A new portable 85° glossmeter, specially designed for measuring the sheen of interior wall paints and camouflage paints, is on the market. **(No. 616)**

A new liquid accelerator, miscible with water, can be added directly to natural or synthetic latex, the makers state. Films vulcanized with it are described as having high tensile strength and good aging properties. **(No. 617)**

New laminated tubing for the chemical and oil processing industries, made of glass fibers bonded with resins, is said to have the strength of steel and to be rust- and corrosion-proof. **(No. 618)**

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(Continued from page 600)

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NOPCOGEN. Fatty amines and amides possessing cationic and surface active properties for general industrial use. 585,672. Nopco Chemical Co.

GEARPHOS. Agricultural insecticide. 585,704. Geary Chemical Corp.

BROX. Fluxes and mixtures of fluxes and metals for welding, brazing, hard surfacing, and like metal joining operations. 585,787. Eutectic Welding Alloys Corp.

PENALAC. Organic pigments. 586,275. General Dyestuff Corp.

AVCOSOL. Conditioning media for lubricating, sizing, and dressing yarns, threads, and filaments. 586,388. American Viscose Corp.

SACON. Wetting agents for industrial particularly in the textile industry. 586,443. Wallerstein Co., Inc.

International. Ready-mixed paints, varnishes, paint enamels, etc. 542,139. International Paint Co., Inc.

FLATTINE. Ready-mixed paints. 561,1 Standard Varnish Works.

UNIGAM. Light-sensitive photographic paper. 584,225. E. I. du Pont de Nemours & Co.

Ebb. Personal deodorants. 576,281. Pharma-Craft Corp.

TIG. Liquid chemical material for cleaning printer's type. 573,410. Diversey Corp.

Jentle Suds. Detergent for general household use. 573,662. Lever Brothers Co.

NOLA. Soap and soap flakes. 575,058. Iowa Soap Co.

TRENAMINE. Detergents for use in the processing of textiles, paper, leather, and felts. 577,640. Alco Oil and Chemical Corp.

Complexionette. Toilet soap. 578,134. Colgate-Palmolive-Peet Co.

MAGID. Finishing pastes, polishes and preservatives for leather gloves and the like. 527,419. Magidiz Co.

July 11, 1950, Vol. 636, No. 2.

Bell Mine. For specially prepared hydrated lime used primarily for industrial and chemical uses. 560,369. Warner Co.

Permalite. Expanded perlite for use as a filler, filter aid, insulating material, and as an ingredient in plaster, concrete, and insulating board. 569,451. Great Lakes Carbon Corp.

STYROFOAM. For irregular solid masses of multicellular expanded synthetic resinous material and granular masses of the same material comminuted. 583,642. Dow Chemical Co.

Pret-O-lite. For chemicals used in treating petroleum emulsions to recover their oil content. 554,323. Petrolite Corp., Ltd.

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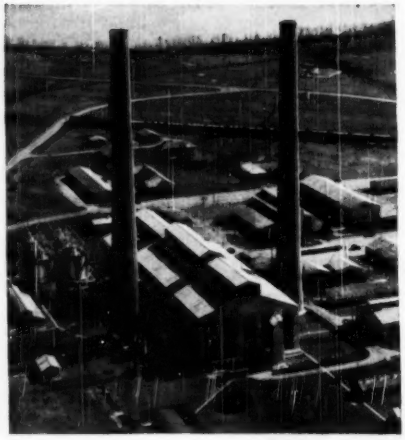
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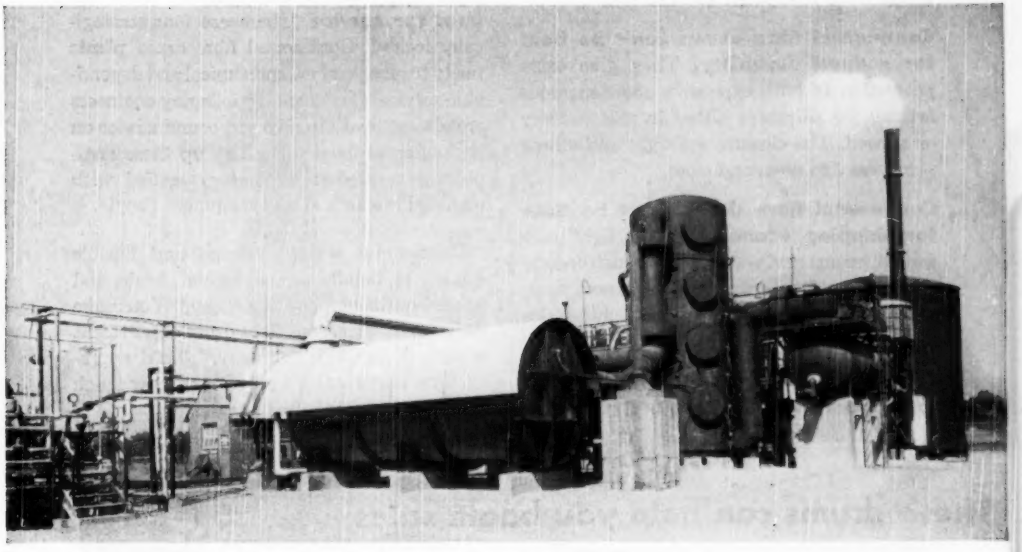
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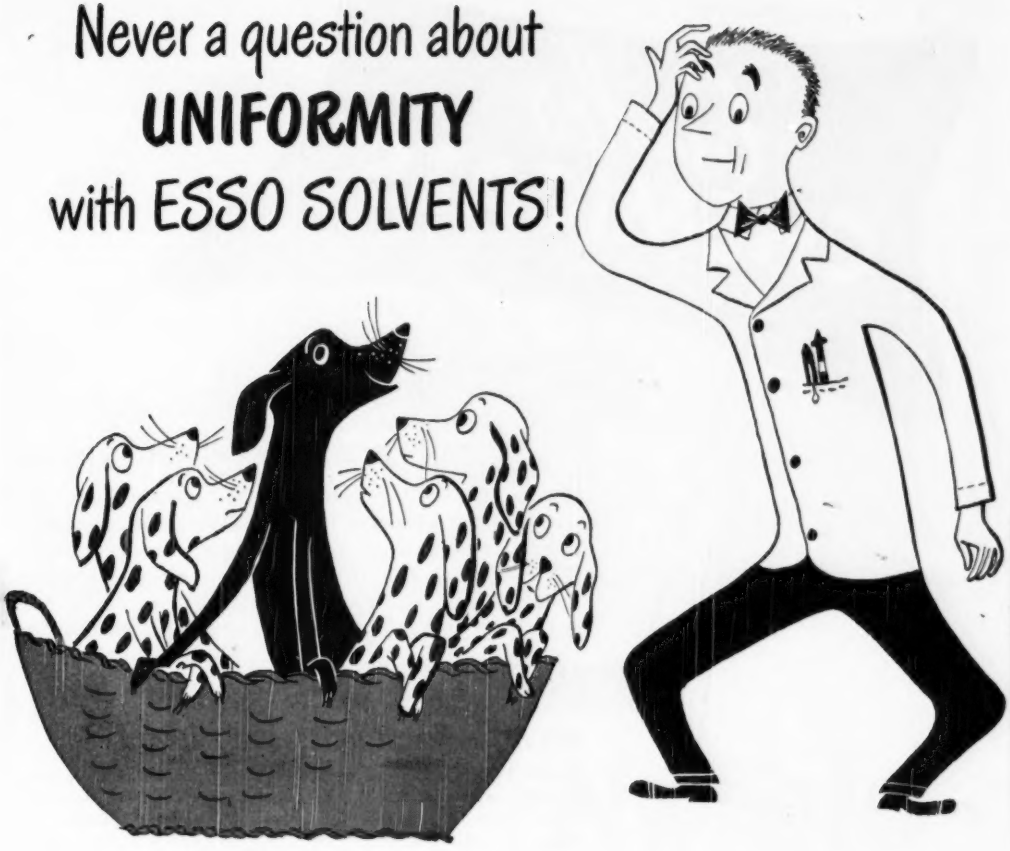


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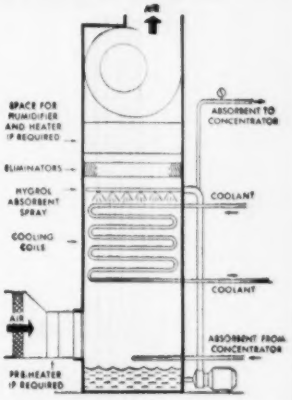
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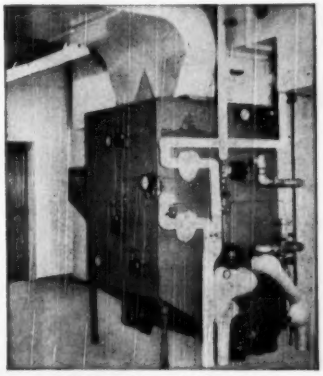
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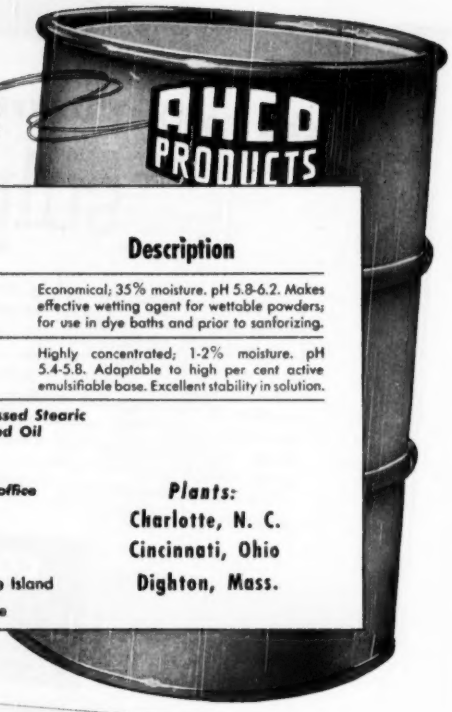
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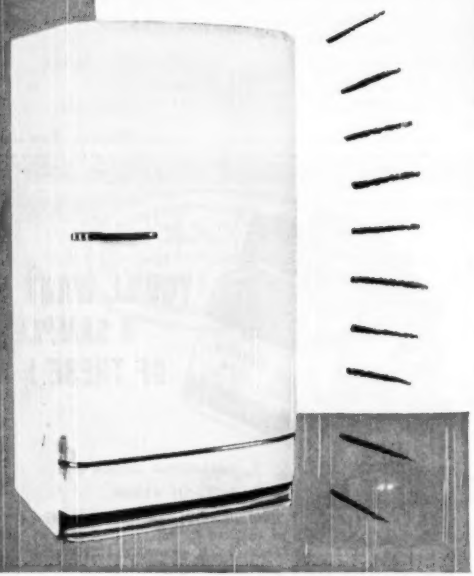
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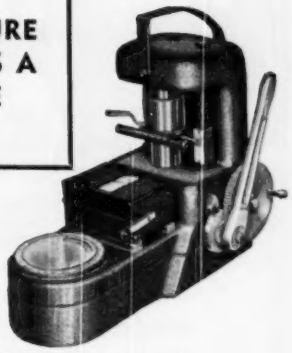
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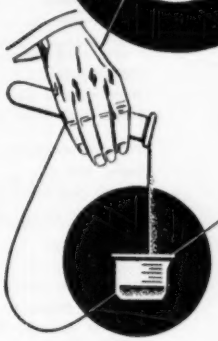
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MAKES IT HANDY

Products and literature in this issue are listed on these pages. There are two indexes. (1) Editorial items on new products, new equipment, new literature; (2) products advertised. The index of advertisers is on the preceding page.

THE NUMBERS

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Editorial Items:—Numerals are page numbers; the ABC's distinguish among items where more than one is on a page. There is a number on the postcard for each item in three editorial departments: Equipment News, New Products, and New Literature.

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ADVERTISING STAFF

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BUSINESS MANAGER ..... **A. E. WEIS**

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Los Angeles ..... CARL DYSINGER
Los Angeles ..... H. L. KEELER
New York ..... L. C. TODARO
New York ..... WM. B. HANNUM, JR.
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San Francisco ..... JOHN OTTERSON
San Francisco ..... RALPH E. DORLAND

NAME _____

POSITION _____

COMPANY _____

ADDRESS _____

CITY & STATE _____

PLACE 3¢ STAMP HERE

CHEMICAL INDUSTRIES
READER SERVICE DEPARTMENT
330 W. 42nd STREET
NEW YORK 18, N. Y.

FOR YOUR PROCESS NEEDS . . .

Oxalic Acid

From Coast-to-Coast Warehouse Stocks!

In buying Oxalic Acid, you can always depend on General Chemical for a superior product of consistently high purity and uniformity of crystal size. And you can also depend on General Chemical for prompt delivery from the company's chain of distributing points in America's industrial centers!

For production efficiency—and for economical operations—this combination of highest quality *plus* ready availability is of utmost importance to you. So be sure—for your needs, specify General Chemical Oxalic Acid!



For Removal of Rust and Iron Stains

As a Laundry Sour or Bleach



For Cleaning Railroad Cars and Buses

Bleaching Leather, Straw, Cork; Leather Tanning



For Radiator Cleaner Compounds and Metal Polishes

Textile Dyeing and Manufacture of Dyestuffs



For Electroplating

Production of other Chemicals and Plastics



GRADE: Colorless crystals thru 10 mesh. Contains a minimum of 99.5% $C_2H_2O_4 \cdot 2H_2O$

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In Canada: The Nichols Chemical Company, Limited • Montreal • Toronto • Vancouver

Oxalic Acid Crystals enlarged 4 diameters

BASIC CHEMICALS

FOR AMERICAN INDUSTRY



WITCO research
brings you 5 new products

You can count on Witco Research to come up with new chemicals that will help to improve your products. Here are just a few of the latest developments from the Witco research laboratories:

Stabilizers #40 and #70 Two outstanding new products for the stabilization of the effects caused by light and heat in vinyl resins.

Witco Disperso Zinc Stearate A *wettable* form of this usually water-repellent chemical. Now it is possible to make a finely dispersed water suspension by just adding Witco Disperso Zinc Stearate and gently agitating.

Witco 6% Calcium Naphthenate Gives high concentration metal content with less than A viscosity. It has unusually good compatibility with solvents, drying oils, and resins.

Witco Lacquer Grade Zinc Stearate #1 Has outstanding sanding qualities and maximum flatting, combined with good film hardness and minimum thickening on grinding.

Write to Witco *today* for more information on these new products.

Check your requirements against these WITCO products:

METALLIC STEARATES
VINYL STABILIZERS
PAINT DRIERS
ASPHALT & ASPHALTIC MASTICS
CARBON BLACKS
SUNOLITE (Anti Sunchecking Wax)

WITCO
Chemical Company

295 Madison Avenue, New York 17, N. Y.

Los Angeles • Boston • Chicago • Houston
Cleveland • San Francisco • Akron
London and Manchester, England

Chemical Industries

BUYERS GUIDE SECTION

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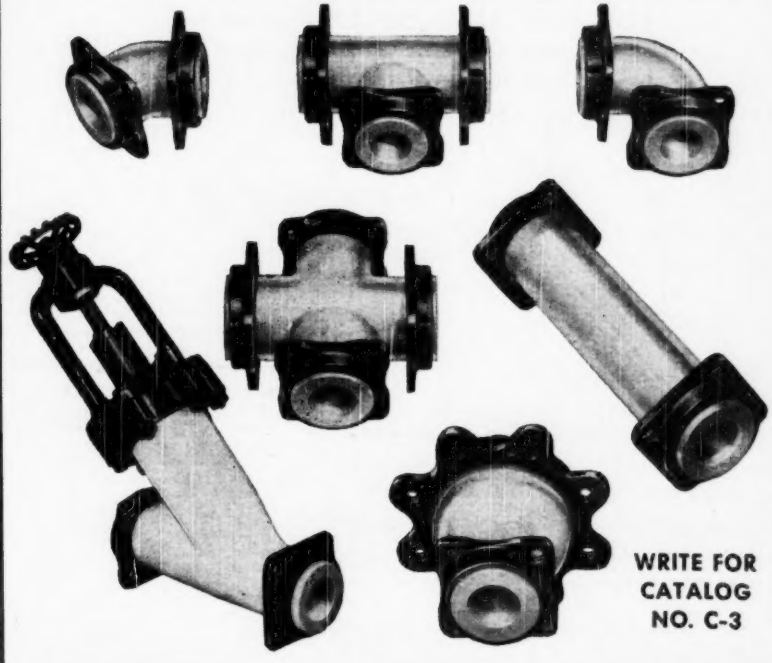
Part 2 of the regular October, 1950 issue of Chemical Industries

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A guide to suppliers of chemical materials and process equipment

ORCELAIN FOR THE CHEMICAL INDUSTRY

PORCELAIN PIPE
FITTINGS
FLANGES
SPACERS
Y TYPE VALVES
ANGLE TYPE VALVES
ERTICAL CHECK VALVES
ANGLE CHECK VALVES
RASCHIG RINGS
FLOAT BALLS
BLOW PIPES
AND SPECIAL SHAPES

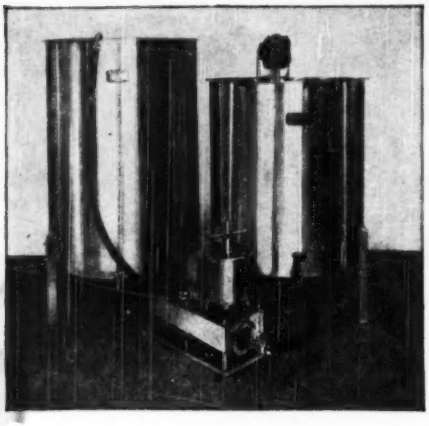


WRITE FOR CATALOG NO. C-3

ILLINOIS ELECTRIC PORCELAIN CO.
MACOMB, ILLINOIS

ALSOP FILTERS, MIXERS, and Stainless Steel TANKS

for dependable, low-cost time proven performance



Products of experience

For over 25 years manufacturing and processing plants have relied on the consistent high standards of Alsop Liquid Processing Equipment and on the technical services of Alsop engineers to help maintain efficient and economical production.

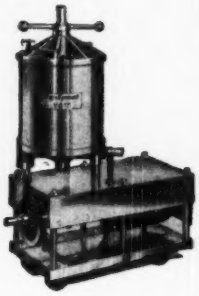
The Units shown here are only a few of a whole complete line of Filters, Mixers and Tanks developed to meet the varying demands of our many customers and our engineering staff is prepared to design special types which might be required to fit your specific job.

The diversity and completeness of our experience in Agitation and Filtration Engineering in all manufacturing and processing industries is available to you. Let us help you with your mixing and filtering operations. Call on us at any time, no obligation of course.

"Sealed-Disc" All Purpose Filters

Alsop "Sealed-Disc" Filters remove dirt, fiber, particles, etc. The Asbestos Filter Disc Elements insure a uniformly pure crystal-clear product but where ultra-fine filtration is not needed the Filter can be supplied to use ordinary filter paper.

Their simplicity, portability and compactness assures convenience and speed in operation and positive filtration results. They are available made of Stainless Steel, Monel Metal, Nickel-Plated Brass and Bronze or Iron and Steel in a wide range of sizes and capacities.



"Hy-Speed" Portable Mixers For All Liquids

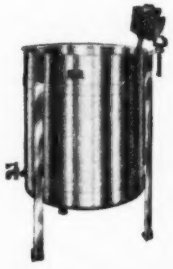
We manufacture a full line of Portable Mixers for blending, dissolving and mixing or any type of processing where good agitation is necessary. The universally adjustable clamp makes for speed and ease in positioning the shaft and propellers for the best mixing action. The two propellers are also adjustable on the full length shaft.

These portable, easy-to-operate Mixers, available in size from 1/10 H.P. up to 5 H.P., make any tank a mixing tank. The solid acid-resisting shaft cannot collect liquid and cause contamination. Standard shafts and propellers are made of Stainless Steel.



Outstanding Mixing and Storage Tanks

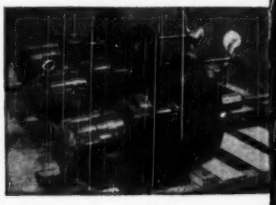
We offer a complete line of sturdy 16 gauge Stainless Steel Mixing and Storage Tanks in sizes from five to three hundred gallons capacity. The all welded construction, rounded corners, and highly polished, crevice-free surfaces make them simple to clean and keep sanitary. We can furnish any of our Tanks with our new permanently mounted Mixer for a complete Mixing Unit. Our new bracket and clamp device makes it easy to fit the particular kind of agitation to your product and process. Mixers are available in direct drive or slow speed models. We can supply covers, valves and faucets of various types and sizes.



Sturdy, Efficient, Stationary, Agitators

We manufacture a complete line of Fixed-Side or Top-Entering Agitators. The shafts and propellers can be supplied made of Stainless Steel, Monel Metal, Nickel, Aluminum, Brass, Bronze, Iron, Steel and Special Alloys.

In addition to our adaptable semi-standard types, we are constantly called upon to design special combination units to meet exceptional applications. We urge you to call our engineers in on the preliminary stages of your planning.







Send for your copy of our catalog

Our new catalogue illustrates and descr
our full line of Stainless Steel Liquid
cessing Equipment in complete detail.
for your free copy today.

Reader Service

An Expanded Service To You

To receive more information about any product advertised in the Buyers Guide, write your request on one of these easy-to-use cards. The result is . . . time saved for you, with no letters to write, and no postage required.

HOW TO USE

Fill in the product on which you want more information, the advertiser's name, the number of the page on which the ad appears — plus your name, position, and address. Mail the card to us. We tell the company of your interest and he replies direct to you.

This handy Buyers Guide is divided into distinct sections, each of which will be a valuable source of information to you—not only now, but in the future too. Keep it handy—you will have continuing use for it—and for the Reader Service cards.

INDEX OF ADVERTISERS

. . . . . PAGE 4

Here is a vital department for you—lists all the advertisers in the Guide—if you see a company's name there and read his ad and would like to know more about his product or service, just tear out one of the cards at the right, fill it in, and mail it.

CATALOG SECTION

. . . . . PAGE 8A

In this section are full page advertisements with descriptive treatment of chemicals and equipment that you may want to know more about—use a Reader Service Postcard.

CHEMICAL COMPANY DIRECTORY

. . . . . PAGE 9

Want to know what company makes a certain kind of chemical in a particular area? This part of the Buyers Guide gives you the answer. Notice the advertisements scattered through the pages—do you see something you would like to know more about? Send a postcard to us.

1 Product ..... Company .... Page.....	5 Product ..... Company .... Page.....
2 Product ..... Company .... Page.....	6 Product ..... Company .... Page.....
3 Product ..... Company .... Page.....	7 Product ..... Company .... Page.....
4 Product ..... Company .... Page.....	8 Product ..... Company .... Page.....

Name .....*Title* .....
Your Company .....
Address .....

1 Product ..... Company .... Page.....	5 Product ..... Company .... Page.....
2 Product ..... Company .... Page.....	6 Product ..... Company .... Page.....
3 Product ..... Company .... Page.....	7 Product ..... Company .... Page.....
4 Product ..... Company .... Page.....	8 Product ..... Company .... Page.....

Name .....*Title* .....
Your Company .....
Address .....

NEED MORE DATA • • •

. . . on new materials and equipment

. . . on products appearing in the advertising pages

WANT COPIES OF • • •

. . . latest catalogs and manufacturers' bulletins

USE • • •

. . . CHEMICAL INDUSTRIES Reader Service

Postage Will be Paid by Addressee

No Postage Stamp Necessary If Mailed in the United States

BUSINESS REPLY CARD

First Class Permit No. 64 (Sec. 34.9 P.L.&R.) New York, N. Y.

CHEMICAL INDUSTRIES Buyers Guide

Reader Service Department
McGraw-Hill Publishing Company
330 West 42nd Street
New York 18, N. Y.

Postage Will be Paid by Addressee

No Postage Stamp Necessary If Mailed in the United States

BUSINESS REPLY CARD

First Class Permit No. 64 (Sec. 34.9 P.L.&R.) New York, N. Y.

CHEMICAL INDUSTRIES Buyers Guide

Reader Service Department
McGraw-Hill Publishing Company
330 West 42nd Street
New York 18, N. Y.

CHEMICALS & RAW MATERIALS

. . . . . PAGE 49

In alphabetical order, here are the chemicals and raw materials — with the names of the companies who supply them. Use a card at the left to inquire about any products you see advertised in the ads liberally sprinkled up and down the pages. We will tell the company that you saw his ad and want additional information.

RESEARCH CHEMICALS

. . . . . PAGE 469

This new section consists of an alphabetical list of industrial research chemicals, both organic and inorganic, together with their manufacturers. Listings are limited to chemicals that are currently being produced in research quantities only.

CHEMICAL SPECIALTIES

. . . . . PAGE 481

In this section are listed all the chemical specialties in alphabetical order, and all the companies supplying the specialties. Use the Reader Service postcards at the left to get more details on any product that you see advertised in this section.

EQUIPMENT AND CONTAINERS

. . . . . PAGE 619

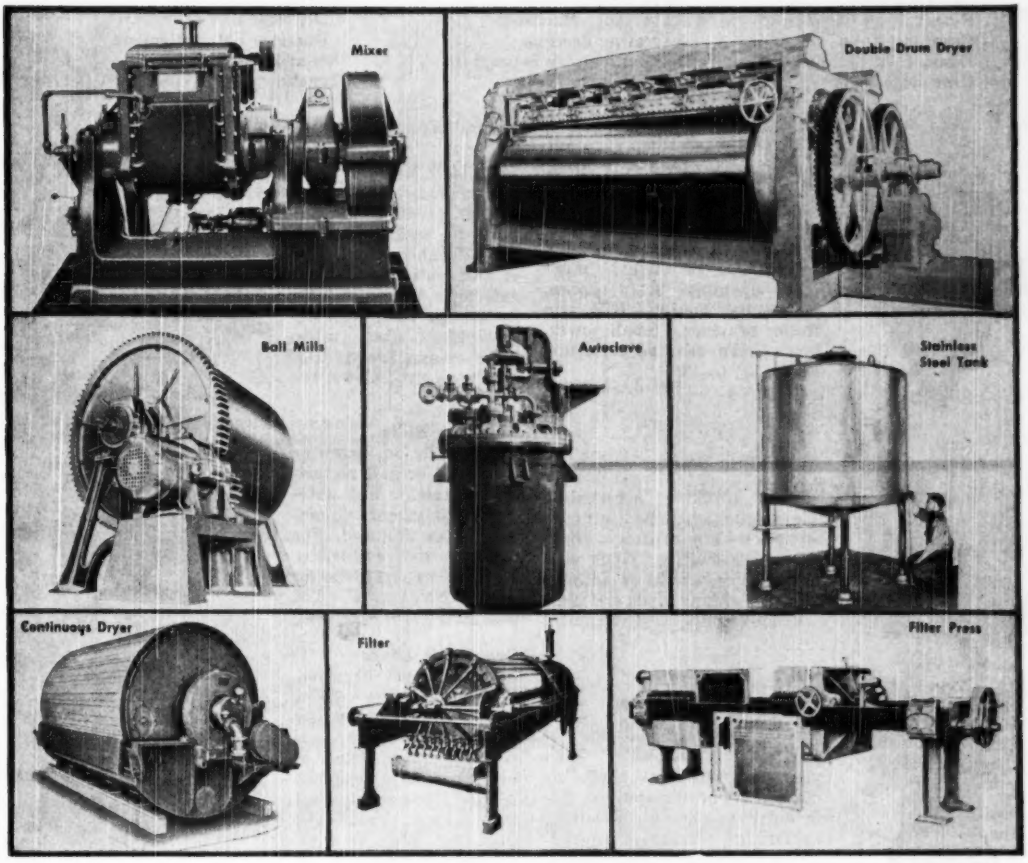
Do you need some more information on the multitude of equipment and containers advertised here? The ads can be found in the pages of this section which list alphabetically the suppliers of this kind of equipment Just fill in the cards and we do the rest.

IN GENERAL . . .

You can use our Reader Service free postcards for any advertisement appearing in the Buyers Guide. This, of course, includes front, inside and back cover-ads as well as the ads in the individual sections. Let us do the work for you—fill out one of the cards and mail them in. We'll tell the companies your interests. They'll answer you direct.

R. GELB & SONS, INC.

USED and REBUILT PROCESS EQUIPMENT



A RELIABLE SOURCE FOR OVER 60 YEARS

SERVICE—The many prominent companies that have looked to "Gelb" for their much needed equipment are your guarantee of satisfactory service.

LARGE STOCK—The large and varied stock of machinery and equipment may be inspected at any time.

LIQUIDATION—The "Gelb" organization is prepared to render appraisals on single items or complete plants. Check with "Gelb" before making a final decision as to your liquidator.

We Are Prepared To Serve Clients In The Following Industries:

Breweries	Ceramic	Drugs	Glue	Paint & Lacquer	Plastics
Beverage	Cosmetic	Food Products	Ink	Paper	Soy-Beans
Chemical	Distilling	Fertilizer	Meat Packing	Perfume	Sugar
Canning	Dry Colors	Gelatin	Oil	Petroleum	Varnish

WE BUY COMPLETE PLANTS OR SINGLE ITEMS

R. GELB and SONS, INC.

UNION, NEW JERSEY EST. 1886 UNionville 2-4900

STURTEVANT MILL COMPANY

8 Harrison Square, Boston 22, Mass.

Reduction, Separating, Conveying and Processing Machinery

Jaw Crushers
Rotary Fine Crushers
Crushing Rolls
Hammer Mills
Ring Roll Mills
Rock Emery Mills
Laboratory Machines
Vibrating Screens
Mechanical Air Separators
Bale Pulpers, Paper
Mixers
Dry Batch
Dustless Batch Blenders
Den and Excavator
Elevators

Services: Consulting, Designing and Erecting Engineers



Air Separators

for finest separation of dry materials. Range of work 40 to 400 mesh. Capacities ¼ ton to 50 tons per hour. Large feed opening, steep cones, rigid construction, Ball and Roller bearings. Small power, low upkeep, easy adjustments. Sizes: 3′ to 18′.



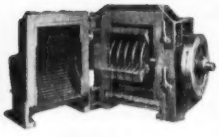
Moto-Vibro Screens

screen anything screenable. Classified vibrations. Unit construction—any capacity. Open door accessibility. Open and closed models with or without feeders. Many types and sizes —range of work ½″ to 60 mesh.



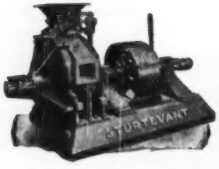
Rotary Fine Crushers

for intermediate and fine reduction. (1″ to ¼″.) Open door accessibility. Soft or moderately hard materials. Efficient granulators. Excellent preliminary Crushers preceding Pulverizers. Many sizes. Belt or motor driven.



Swing-Sledge Mills

for coarse and medium reduction. (1″ to 20 mesh.) Open door accessibility. Soft, moderately hard, tough or fibrous substances. Built in several types and many sizes.

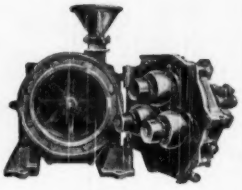


Fine Pulverizers

built in both Vertical and Horizontal types. For grinding soft and moderately hard materials to a fineness of 40 to 300 mesh.

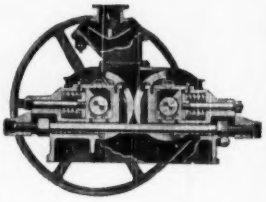
Ring Roll Mills

for medium and fine reduction (10 to 200 mesh) hard or soft materials. Very durable, small power. Operate in closed circuit with Screen or Air Separator. Open door accessibility. Many sizes, large or small capacities. No scrapers, plows, or shields.



Crushing Rolls

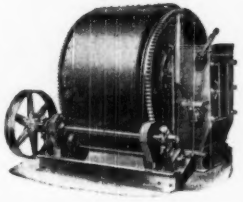
for granulation, coarse or fine, hard or soft materials. Precision and automatic adjustments. Crushing shocks balanced. For dry or wet reduction. Sizes 8x5 to 38x20. Roller Plain bearings. The standard for abrasives.



Dry Batch Mixer

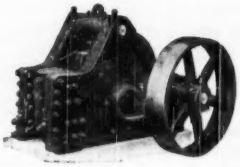
for intimate blending. Batch type. One opening only for intake and discharge. Open door accessibility. Many sizes, ¼ to 2 tons—Large outputs. Simple, Compact, Easy Running, Practically Dustless. With or without batch hoppers.

Also Dustless Batch Blenders.



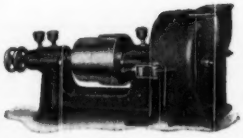
Jaw Crushers

for coarse, intermediate and fine reduction of hard or soft substances. Heavy or light duty. Cam and Roller action. Special crushers for Ferro-alloys. Several types, many sizes.



Laboratory Machinery

Jaw and Rotary Crushers, Rolls, Hammer Mills, Disc Pulverizers, Screens, Air Separators, Coal Crusher and Sampler, Vibrating Test Sieves.



Open-Door Elevators, Conveyors, Bins, Chutes, Spouts, Special Machinery, Built to Order

Chemical Industries

BUYERS GUIDE SECTION

26th Annual Revision

Volume 67—Number 4 October 1950—Part 2

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What this Section Contains

Catalog Section

Catalog and full page advertisements of suppliers of chemicals and equipment.

Chemical Company Directory

Geographical listings of names and addresses of manufacturers, importers and local distributors of chemicals, specialties and raw materials sold in the United States.

Chemicals and Raw Materials

Over 3,000 chemicals and raw materials with formulas, chemical and physical properties, synonyms, principal uses, with a list of manufacturers, importers and local distributors.

Research Chemicals Section

List of 2900 industrial research chemicals, both organic and inorganic, together with their manufacturers. Limited to chemicals that are currently being produced in research quantities only.

Chemical Specialties

Chemical specialties for textiles, leather, paper, ceramics, etc., with a working definition and list of manufacturers and distributors for each product.

Technical and Statistical Data

Useful factors of conversion for weights and measures. Tables of standard pipe dimensions.

Chemical Prices

The annual high and low prices of chemicals and raw materials covering the years from 1939-1949.

Associations and Societies

A comprehensive list of trade, technical and scientific organizations in chemical and allied fields.

Equipment and Containers

Comprehensive, where-to-buy-it directory of equipment, instruments, apparatus, containers and other supplies commonly used by the chemical and process industries. Includes an alphabetical listing of names and addresses of manufacturers and other suppliers.

Brand and Trade Names

The most complete alphabetical list of brands and trade names ever published in the chemical and allied fields—gives the maker, address and the use for each product.

FOR BUYERS GUIDE SECTION:

Publisher: W. F. Traendly Editorial Director: S. D. Kirkpatrick

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PRICE OF THIS SECTION $2.50

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COMPLETELY — EFFECTIVELY — ECONOMICALLY

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The chemical process industries are basic, still-growing and *stable*. They buy:

Raw Materials	$7,242,000,000
Maintenance Materials	281,000,000
Fuel and Power	498,000,000
Containers	305,000,000
Transportation	350,000,000
Supplies and Services	159,000,000

COVERAGE THAT COUNTS

In the process industries, 1,843 plants produce more than $1 million worth of materials annually; 2,978 plants fall into the $500,000 category.

CI will take your sales message into 3,552 plants estimated to represent 76 per cent of the industries' total purchasing power.

Here's a breakdown of calculated coverage industry-by-industry:

Textile Processing	61 %
Pulp and Paper	34
Paints, Varnish, Colors	74
Animal and Vegetable Oils	37
Drugs, Medicines, Toilet Preparations, Insecticides	81
Soap and Glycerine	96
Rayon and Allied Products	97
Hardwood Distillation, Naval Stores	45
Fertilizers	31
Industrial Chemicals	96
Miscellaneous Chemical Products	97
Petroleum Refining	81
Rubber Processing	98
Leather Tanning	23
Cement, Lime, Refractories	26
Non-Ferrous Metallurgy	93

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CI is edited for the active, responsible leaders of the chemical industries. It is designed, specifically, to provide these men—the industries' planners and doers—with the essential information they must have in concise, readable, understandable form.

Editorially, CI is not concerned with the abstruse and the highly theoretical; it does stress what new technical developments mean *economically*, their overall significance and import, how they will affect markets, processing techniques, packaging procedures, etc. CI is practical, useful, usable.

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Catalog Section

Synthetic Organic Chemicals

Produced by

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Union Carbide and Carbon Corporation

Nitrogen Compounds

Ethyl Amine
Diethyl Amine
Triethyl Amine
Isopropyl Amine
Diisopropyl Amine
Ethylenediamine
Diethylenetriamine
Triethylenetetramine
Tetraethylenepentamine
Propylenediamine
Monoethanolamine
Diethanolamine
Triethanolamine
Morpholine
Tetraethanolammonium Hydroxide
Methyldiethanolamine
Dimethylethanolamine
Diethylethanolamine
Aminoethylethanolamine
Dimethylisopropanolamine
Monoisopropanolamine
Diisopropanolamine
Triisopropanolamine
n-Butyl Amine
2-(Ethylhexyl) Amine
Di(2-Ethylhexyl) Amine
Acetoacetanilide
Acetoacet-o-chloranilide
Acetoacet-o-toluidide
Phenyl Morpholine
Phenyl Ethanolamine
Phenyl Diethanolamine
Phenyl Ethyl Ethanolamine

"Tergitol" Surface Active Agents

"Ucon" Fluids and Lubricants

Polyethylene Glycols

Polyethylene Glycols
"Carbowax" Compounds
Methoxy Polyethylene Glycols
Polyethylene Glycol Chlorides

"Cellosize" Hydroxyethyl Cellulose

Ethers and Oxides

Ethyl Ether
Isopropyl Ether
n-Butyl Ether
n-Hexyl Ether
Dichlorethyl Ether
"Chlorex" Solvent
Triglycol Dichloride
Dichlorisopropyl Ether
Ethylene Oxide
"Carboxide" Fumigant
Propylene Oxide
Dioxane

Glycol-Ethers

Diethyl "Cellosolve"
Dibutyl "Cellosolve"
Diethyl "Carbitol"
Dibutyl "Carbitol"
Dibutoxytetraglycol
Dimethoxytetraglycol
Methyl "Cellosolve"
"Cellosolve" Solvent
Butyl "Cellosolve"
2-Ethyl Butyl "Cellosolve"
Phenyl "Cellosolve"
Methyl "Carbitol"
"Carbitol" Solvent
Butyl "Carbitol"

Alcohols

Methanol
Ethanol
"Synasol" Solvent
Allyl Alcohol
Isopropanol
n-Butyl Alcohol
Methyl Amyl Alcohol
2-Ethylbutanol
n-Hexanol
Heptanol-2
2-Ethylhexanol
Undecanol
Tetradecanol
Heptadecanol
Trimethylcyclohexanol

Glycols

Ethylene Glycol
Diethylene Glycol
Triethylene Glycol
Propylene Glycol
Dipropylene Glycol
Ethylhexanediol
Butanediol
Octylene Glycol
2-Methylpentanediol

Organic Acids

Butyric Acid
Ethylbutyric Acid
Caproic Acid
Sorbic Acid
Ethylhexoic Acid

Anhydrides

Acetic Anhydride
Propionic Anhydride
Butyric Anhydride
Maleic Anhydride
"Carbic" Anhydride

Aldehydes

Butyraldehyde
2-Ethylhexaldehyde
2-Ethylbutyraldehyde
2-Ethyl-3-Propylacrolein
Glyoxal
Pyruvic Aldehyde

Ketones

Acetone
Methyl Acetone, Synthetic
Methyl Isobutyl Ketone
Methyl n-Amyl Ketone
Diacetone Alcohol
Mesityl Oxide
Isophorone
Acetonylacetone
Diisobutyl Ketone
Pentanedione
Ethylbutyl Ketone
Trimethylnonanone

Esters

Ethyl Acetate
Isopropyl Acetate
n-Butyl Acetate
Methyl Amyl Acetate
2-Ethylbutyl Acetate
2-Ethylhexyl Acetate
Methoxytriglycol Acetate
Methyl "Cellosolve" Acetate
"Cellosolve" Acetate
"Carbitol" Acetate
Butyl "Carbitol" Acetate
Glycol Diacetate
Glycol Diformate
Methoxytriglycol Acetate
Methyl Acetoacetate
Ethyl Acetoacetate
Tetraethyl Ortho Silicate
Diethyl Sulfate
Allylidene Diacetate

Acetals

Dichlorethyl Formal
Methyl "Cellosolve" Acetal

Plasticizers

"Flexol" Plasticizer B-400
"Flexol" Plasticizer CA-6
"Flexol" Plasticizer DHP
"Flexol" Plasticizer DOP
"Flexol" Plasticizer R-1
"Flexol" Plasticizer TOF
"Flexol" Plasticizer TWS
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"Flexol" Plasticizer 8N8

Sulfur Compounds

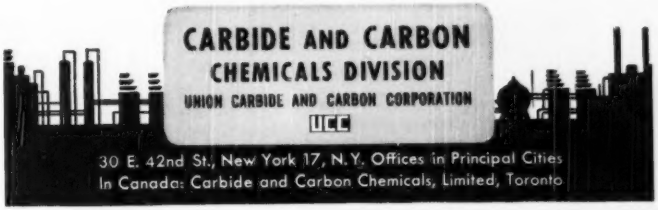
"Kromfax" Solvent (Thiodiglycol)
Mercaptoethanol
Thialdine

Chlorine Compounds

Ethylene Dichloride
"Chlorasol" Fumigant
Trichlorethane
Trichlorethylene
Propylene Dichloride
n-Butyl Chloride
Ethylene Chlorhydrin
Propylene Chlorhydrin

For further information on these or other chemicals we produce, write for the booklet, "Physical Properties of Synthetic Organic Chemicals," F-6136.

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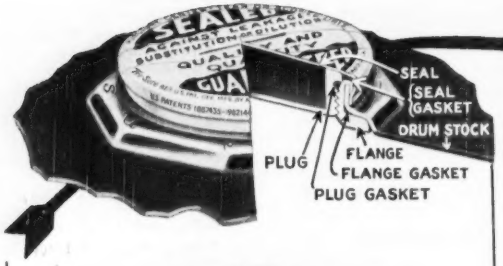
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Tri-Sure Products Limited, St. Catharines, Ontario, Canada

Tri-Sure

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CLOSURES



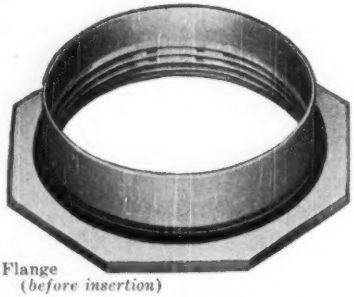




The Seal



The Plug



The Flange
(*before insertion*)

The Tri-Sure Closure* was designed to meet the demands of oil and chemical companies for a soundly-engineered sealing device which would safeguard liquids in drums from the hazards of transit.

Today the Tri-Sure Closure is used in more countries, by more companies, and for more products than any other closure—because it is recognized as the most reliable means of ensuring the delivery of the exact quantity and quality which the shipper puts into the package.

The Tri-Sure Closure provides a margin of safety which far surpasses the requirements of the average container:

Safety from Leakage and Seepage
Safety from Internal and External Pressure
Safety from Breathing-in and Contamination
Safety from Pilferage and Substitution

This multiple assurance of safety is achieved by the perfect inter-engagement of three precisely-formed parts—a flange, a plug and a seal.

THE FLANGE**

The Tri-Sure Steel Flange is inserted as an integral part of the drum stock—as strong as the drum itself. An octagonal seat formed in the drum stock receives the octagonal base of the flange. The neck of the flange fits snugly within the collar of the drum stock, which extends upward from the octagonal seat. The extending end of the neck is curled tightly over the free end of that collar, thus strongly compressing the flange gasket, and drawing the base of the flange up into its octagonal seat. This exclusive Tri-Sure assembly resists rotation, distortion and leakage.

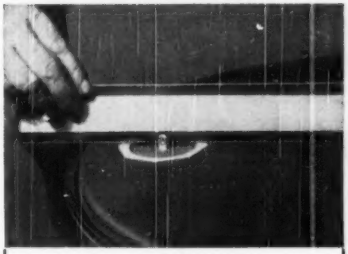
THE PLUG**

The Tri-Sure Plug fits securely into the flange to effect a tight closing. The plug is die-cast from a high-grade die-casting alloy, enabling its dimensions to be maintained within close tolerance. The gasket seat is exactly formed, and its relationship to the plug threads is exactly maintained. The result is that Tri-Sure Plug gaskets seat with perfect uniformity and efficiency.

Tri-Sure Plugs are available in three sizes—2", 1½", and ¾"—all with holes for wire-sealing. The 2" and 1¼" plugs are provided with either eyelets or threaded adapters on their bases to receive faucets. Pressed steel plugs are also available, in the same sizes as the die-cast plugs.

THE SEAL

The Tri-Sure Seal is made of 195-lb. plate. With its own cork gasket, it forms a leak-proof, air-tight covering for the closure, which prevents breathing-in, intake of dust, and seepage. When the seal is applied, with the special sealing tool, the skirt of the seal is pressed in against the neck of the drum stock, and extends practically to the base of that neck, so that the seal cannot be pried off without destroying it, making undetected tampering, pilferage or substitution impossible. Scored lines on the seal make its authorized removal an easy, quick operation.



Tri-Sure Full Drainage Saves 8.34 Ounces In Every Drum

The base of the Tri-Sure Flange is perfectly flush with the inside of the drumhead. This flush fitting of the flange is an invaluable feature, as it assures full drainage, and the saving of considerable gallonage from waste. Tests have shown that drums fitted with Tri-Sure Closures drain an average of 8.34 more ounces. Calculated on the basis of a 10,000 55-gal. drum shipment, the consumer will recover over 650 gals. which would otherwise remain in the drums.

Tri-Sure Seals can be supplied with your name, trademark or other insignia—designed and lithographed in full color to your exact specifications. These customer-designed seals provide attractive product identification, and many hundreds of private designs are now in use in the United States alone.

PLAY SAFE—BY SPECIFYING "TRI-SURE CLOSURES" ON DRUM ORDERS

Any drum manufacturer, in any country, can supply you with drums equipped with Tri-Sure Closures. A Tri-Sure Flange is inserted as an integral part of the steel container body at the time of manufacture. Precision dies for this operation, supplied by our company, are in the plants of all drum manufacturers. Just specify Tri-Sure Closures to your supplier, and your drums will be delivered with flanges and plugs; you apply the seals.

Specify Tri-Sure Closures in every drum order, as an expression of the pride you take in your product—and as proof to your customers that every gallon in every drum is protected from leakage, seepage, tampering and pilferage.

**The "Tri-Sure" Trademark is a mark of reliability backed by 28 years serving industry. It tells your customers that genuine Tri-Sure Flanges (inserted with genuine Tri-Sure dies), Plugs and Seals were used.*

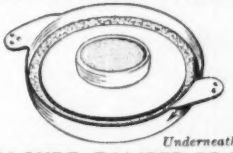
***2" flanges and plugs manufactured with American and also British (Whitworth) Thread.*

NEW TRI-SURE PRODUCTS



TRI-SURE SIDE-SCORED SEAL

This new seal, embodying wings and side-scoring, marks an outstanding achievement in ease of removal—at the same time retaining the same high quality and positive protection that are exclusive with Tri-Sure Seals. Like all Tri-Sure Seals, it gives protection from leakage, seepage and pilferage.



Underneath View

TRI-SURE TAMPER-PROOF VENT CAP

This vent cap and seal assembly is made especially for liquids which build up pressures. Regardless of the position of the drum, a filter permits gases to escape through vents in the seal, but will not allow the product to pass. The filter can be supplied to suit liquid viscosity. Two-inch size only.



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This new Tri-Sure Steel Plug embodies rolled threads and a new type of extremely strong wrench lugs. It is a unit of exceptional strength, yet is much lighter in weight than the standard Tri-Sure Steel Plug, and functions as easily and efficiently as the widely used Tri-Sure Zinc Plug.



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Propionyl Chloride
Sulfuryl Chloride
Thionyl Chloride

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Propionyl Chloride

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Benzene Hexachloride
Hexachlorobenzene
Monochlorobenzene
Orthodichlorobenzene, Tech.
Paradichlorobenzene
1,2,4,5-Tetrachlorobenzene
1,2,4-Trichlorobenzene
2,4,5-Trichlorophenol

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Methyl Benzoate
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CP-70,® Powdered Resin, 70% Chlorine

Chlorine, Liquid

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Bis(trifluoromethyl)benzene
m-Aminobenzotrifluoride
m-Chlorobenzotrifluoride
o-Chlorobenzotrifluoride
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Arsenic Trichloride, Anhy.
Tetraphenyl Tin

Muriatic Acid

Commercial
Hooker White

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Phenyl Isocyanate
Phosgene

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Sodium Sulfhydrate
Sodium Sulfide
Sodium Tetrasulfide
Sulfur Dichloride
Sulfur Monochloride
Sulfuryl Chloride
Thionyl Chloride

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Benzoic Acid—USP, Tech.
Benzoic Anhydride
Benzotrichloride
Benzoyl Chloride
Benzyl Alcohol, Tech.
Benzyl Chloride
Benzyl Thiocyanate
Monochlorotoluene
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From the Salt of the Earth

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8 E

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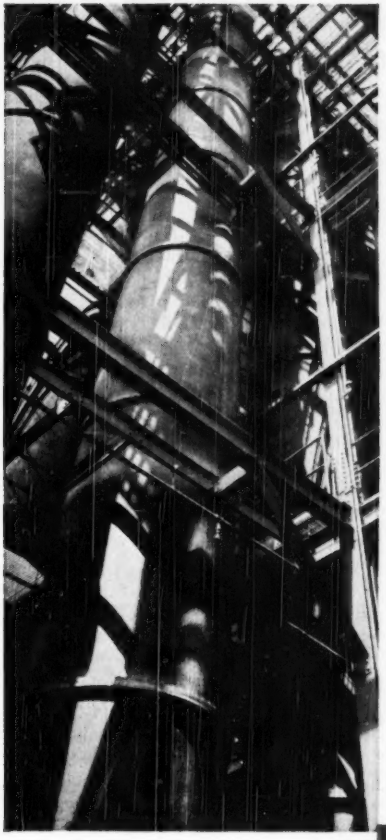
Among the many industries served by Monsanto are the following:

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Appliances
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Aviation
Carpet and Rug
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Chemical Processing
Construction
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Dyestuff
Food and Beverage
Furniture
Graphic Arts
Insecticides and Fungicides
Iron and Steel
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Leather Tanning
Lumber and Woodworking
Machinery
Mining
Non-Ferrous Metals
Packaging
Paint, Surface Coatings
Paper
Petroleum
Plastics
Plating
Power - Industrial
Printing Inks
Refrigeration
Rubber
Soaps and Detergents
Textile
Tobacco
Water Treating

See the alphabetical section of the catalog for listings, descriptions and characteristics of some of the many hundreds of Monsanto products, including Fine Chemicals, Medicinal Compounds, Phosphates and Phosphorus Compounds, Intermediates, Acids, Plastics, and a variety of specialties. Send for the complete catalog of Monsanto Chemicals and Plastics, or write for further information on any product that interests you.

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n-Butyric Acid
Crotonic Acid

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2-Ethylbutyl Alcohol
2-Ethylhexyl Alcohol

ALDEHYDES

Acetaldehyde
n-Butyraldehyde
Crotonaldehyde
Isobutyraldehyde

PLASTICIZERS

Dibutyl Phthalate
Diethyl Phthalate
Di-(2-Ethylbutyl) Phthalate
Di-(2-Ethylhexyl) Phthalate
Di-(Methoxyethyl) Phthalate
Dimethyl Phthalate
Triacetin
Tributyrin

aromatic

AMINES

2, 5-Diethoxy Aniline
2, 5-Dimethoxy Aniline
Phenyl Diethanolamine
Phenyl Ethyl Ethanolamine
m-Tolyl Diethanolamine
o-Tolyl Propanolamine

AMINOPHENOLS

m-Aminophenol
p-Aminophenol
Tenamene 1

PHENOLS

1, 5-Dihydroxy Naphthalene
2, 5-Di-tert-Butyl Hydroquinone
Quinizarin
Tecquinol
Toluhydroquinone

PHENOL ETHERS

Hydroquinone Diethyl Ether
Hydroquinone Dimethyl Ether
Hydroquinone Di-n-Butyl Ether
Hydroquinone Mono Methyl Ether

MISCELLANEOUS

Acetanilide
p-Benzoquinone
2, 5-Di-tert-Butyl Quinone
Tenamene 2

EASTMAN INDUSTRIAL CHEMICALS

SOLVENTS

Acetone
n-Butyl Acetate
Ethyl Acetate
Isopropyl Acetate

MISCELLANEOUS

Isopropenyl Acetate
Triethyl Phosphate

cellulose products

Cellulose Acetate
Cellulose Acetate Butyrate
Oxidized Cellulose

inorganic

Iron Oxide
Tecmangam 65%
Zinc Thiocyanate

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Specifications, properties and typical uses of these chemicals are contained in the 1950 Eastman Industrial Chemicals catalog. Write for your copy.

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TITANIUM ALLOY MANUFACTURING DIVISION
NATIONAL LEAD COMPANY

Executive Offices
111 Broadway, New York City
General Offices, Works and Laboratories
Niagara Falls, N. Y., U. S. A.

TAM ZIRCONIUM TITANIUM PRODUCTS
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New York City — Columbus
Plainfield, N. J. — Bethlehem, Pa.
San Francisco — Chicago
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Titanium Alloy Mfg. Division are pioneers in the development of both elements . . . Titanium and Zirconium. For over 40 years, all the resources and efforts of this company have been devoted to exploiting the alloys of Titanium and the compounds of Zirconium and Titanium. With the cooperation of the technical staffs of many customers, researchers and members of the field staff have originated major applications in over 20 industries.

ZIRCONIUM COMPOUNDS

The possibilities and uses of ZIRCONIUM and its compounds in industry are extensive and increasingly larger. At the same time, current developments in progress point to still further expansion of the various products now used successfully in large quantities in the manufacture of Refractories, Electrical Resistors, Dye Extenders, Water Repellents of Textiles, Catalysts, Abrasives, Vitreous Enamel and Glaze Opacifiers, Toners, etc.

TAM Zirconium Metal—Atomic weight of Zirconium is 91.22—specific gravity 6.4. The atomic heat varies from 6.07 to 7.31 at temperatures ranging from 0° to 100° C. Melting point of the metal has not been accurately determined due to probable variation of the purity of the metal under observation and has been reported from 1529° to 1700° C. Zirconium is quadrivalent. Its atomic number is 40 in the periodic system. It has a great affinity for oxygen and at elevated temperatures combines readily with nitrogen, phosphorus, sulfur, the halogens and the like. Zirconium has value as an oxygen getter and is used in flashlight bulbs, as an Oxygen and Nitrogen getter in radio broadcasting and vacuum tubes. The metal is of interest in the above Energy program and due to its high resistance to acids, in chemical equipment, etc.

Zirconium Oxide ZrO_2—Color, white—Specific gravity about 5.6—Melting point about 2700° C. Ignited Zirconium Oxide (fused) is practically insoluble in all mineral and organic acids except Hydrofluoric and concentrated H_2SO_4. It is insoluble in aqueous solutions of alkaline reagents. It will form Zirconates when dissolved in molten caustic alkalies of certain chlorides. It is relatively insoluble in many glass compositions. It has a high refractive index and in some forms a fair hiding power. It is powerfully cantoluminescent.

These properties make Zirconium Oxide commercially important as an opacifier in ceramics, in super refractories, and as a pigment in certain synthetic resins. Research with this compound also indicates high ultra violet repelling properties.

Stabilized Zirconia exhibits excellent thermal shock properties. This advantage plus the very high melting point (4600° to 4700° F) makes it an outstanding refractory for high temperature applications. The development of Stabilized Zirconia is of recent date and data covering its resistance to various alloys, metals, atmospheres, etc., have not been fully determined. Cooperative research is invited.

Zirconium Silicate (Zircon) $ZrSiO_4$—Hardness 7.5—Color, mainly colorless—Index of refraction 1.93 B—Dispersion 2 V 10°—Crystalline Tetragonal—Cleavage 110 rare—specific gravity 4.65—Melting point between 2200°-2300° C., coefficient of expansion is low. Zircon is a good electrical insulator at elevated temperatures and imparts good heat shock resistance in such bodies. Zircon is practically insoluble in all mineral and organic acids. It is unaffected by aqueous solutions of alkaline reagents, either hot or cold. The mineral is decomposed by alkaline fusions.

These properties, among others, make Zircon valuable in industries such as ceramics, heavy chemicals, super refractories, abrasives, dental and high temperature casting cements, mold and core washers, and electrical resistance compounds. Zircon refractories are used in considerable quantities in industries such as phosphates, aluminum refining, precious metals, etc. Crucibles made from this compound exhibit high heat shock resistance. Titanium Alloy Mfg. Division produces Zirconium Silicates of various purities for various uses.

Zirconium Silicate (Zircon) Refractories—These refractories are used in the manufacture of meta phosphates, aluminum refining, platinum and other precious metal melting, high temperature burner block applications and for many other special purposes.

They operate safely up to 2000° C., exhibit good heat shock and abrasion resistance properties and resist the action of various acids and acid slags.

A complete line of standard and special shapes is manufactured.

Zirconium Silicate (Zircon) Electrical Cements—These cements are used in increasing quantities for electrical insulation of heater units such as strip heaters, flat irons, stove units, etc., because they exhibit exceptionally low operating and humidification leakages and extremely fast returns to normal after humidification tests are completed.

In dry press Flat iron insulation, for instance, TAM Cement type A shows an operating leakage of 0.002 M.A., a standard humidification test leakage of 0.2 M.A., and a return to normal in from 15 to 30 seconds.

In mud cast electrical elements TAM cement type B shows an operating leakage of 0.02 M.A., on humidification 0.5 M.A., with a return to normal in from 10 to 15 seconds.

TAM Zirconium Oxychloride $ZrOCl_2+8H_2O$—Color, cream white—Soluble in water. Stable if kept at temperatures below 80° C. When heated above that temperature, hydrochloric acid is liberated, and when calcined ZrO_2 remains. Alkali metal carbonates first precipitate the Zr as hydroxide which dissolves in an excess to form Zirconium Carbonate. This compound is stable only when cold. If heated, Zirconium Carbonate decomposes yielding the hydroxide.

Ammonium Carbonate precipitates the hydroxide which dissolves in excess reagent to form the soluble carbonate. In presence of organic acids, the precipitation of Zirconium hydrate with alkalies can be hindered or prevented.

Phosphoric acid and soluble phosphates precipitate Zirconium phosphate. A saturated solution of tannic acid precipitates Zirconium Tannate.

Zirconium oxychloride as well as the sulphate is the basis from which other Zirconium compounds now used in catalysis, water repellence, manufacture of lakes, dye extenders, etc., are precipitated.

Zirconium Acetate, $ZrOOC_2H_3O_2 \cdot HC_2H_3O_2$.—This compound is furnished in solution form and finds application in water repellent treatment of textiles and in the manufacture of color lakes.

This and other TAM Zirconium compounds are used in water repellent treatment of various types of textiles and produce superior repellence when tested by both standard hydrostatic and spray methods.

Zirconium Sulphate $Zr(SO_4)_2+4H_2O$—Color, practically colorless—the compound is soluble in hot water. The chemical behavior of Zirconium sulphate towards other reagents is approximately the same as the oxychloride.

Space does not permit mentioning the properties and uses of other Zirconium compounds manufactured by the Titanium Alloy Mfg. Division such as Zirconium Nitrate, Carbide, Tetrachloride, Sodium Zirconium Silicate, Potassium and Barium Zirconium Silicates, Stearate, and many others.

Chemical analysis and properties will be gladly furnished.

*TAM is a registered trade mark

TITANIUM ALLOY MANUFACTURING DIVISION
NATIONAL LEAD COMPANY

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TAM RESEARCH CO-OPERATION

TAM laboratories at Niagara Falls contain extensive facilities for research and control along chemical, metallurgical and ceramic lines. Of equal or greater importance is the unique precision equipment maintained for experimental work and the testing of finished products.

The benefits of this modern specialized research are available to industry through a practical engineering staff constantly at work in the field. Qualified by training and experience, these men have the knowledge that makes their assistance in working out problems in your plant especially valuable.

TAM TITANIUM PRODUCTS INCLUDE

TITANIUM COMPOUNDS

Titanium compounds are finding a variety of uses in industry today for such applications as welding rod coatings, scavengers of steel, carbide tools, electrical condensers, acid resisting ceramic coatings and others.

Titanium Metal—Atomic weight 47.9, specific gravity 4.5, atomic heat 0.1462 at 0° to 100° C. and 0.1563 at 0° to 333° C. The melting point is between 1785° and 1800° C. The atomic number is 22 in the periodic system.

Titanium combines with oxygen at about 600° C. and burns in nitrogen at 800° C. When hot, it combines with sulfur, carbon, phosphorus, boron and silicon.

Titanium is readily soluble in hydrofluoric and nitric acids and dissolves slowly in concentrated hydrochloric and hot concentrated sulphuric acids. Titanium Metal due to its high mechanical strength, light weight and high melting point is becoming of increasing interest as a structural material and as an alloying element in high temperature resisting alloys used in jet propulsion. Titanium metal finds use as an alloying addition in copper alloys and in electronics.

Titanium Alloys—Titanium alloys such as low, medium, high carbon Ferro Titanium, Iron and Steel Foundry are used in large and increasing quantities as carbon stabilizer of stainless steels and porcelain enameling iron and as alloy additions. Some of these alloys find volume application as steel cleansers and deoxidizers and as grain refiners and graphitizers of cast iron.

Alfam, a 50% Titanium containing Aluminum Alloy, is used for Titanium incorporation in master Aluminum Alloys, while alloys such as nickel and manganese Titanium find application in weld rod coatings and as alloy additions.

Titanium Carbide TiC—This compound is very hard, has high abrasive value and its melting point and behavior toward other reagents are similar to the properties of Titanium Cyanonitride. TiC finds an ever increasing application in the carbide tool industry.

Rutile—A Titanium Oxide mineral, found in various parts of the world, finds considerable application in welding rod coatings where it, in conjunction with other compounds, aids in the stabilization of the arc, speed of welding, proper slag formation, and in the production of welds of satisfactory elongation, density, strength and endurance. Rutiles are also used as staining compounds by the Ceramic Industry.

Titanium Alloy Mfg. Division produces Rutiles containing from 79% to 94½% Titanium Oxide, all of them of exceptional purity and uniformity.

Titanates—Titanates manufactured by the Titanium Alloy Mfg. Division, such as sodium, potassium and calcium, find increasing uses in welding rod coatings, and the Titanates of barium, calcium, strontium & magnesium are used in large quantities in the manufacture of radio condensers, electrical resistors, etc.

Titanium Tetrachloride $TiCl_4$—This compound is commercially the most important Titanium Chloride and is used in smoke screen applications, sky writing, aluminum metal refining, and experimentally in catalysis.

$TiCl_4$ is a colorless (commercial grade amber with reddish tint) transparent liquid. The specific gravity is 1.76, melting point 25° C. and boiling point 136.4° C. $TiCl_4$ hydrolyzes readily in the presence of moisture and forms basic chloride or titanic acid and hydrochloric acid. $TiCl_4$ reacts readily with many organic substances.

TAM Titanium Cyanonitride—Color, silvery gray, specific gravity about 5.0, melting point in reducing atmosphere over 2750° C. Heating to red heat imparts a variegated range of beautiful surface colors.

Various other Titanium and Zirconium compounds are manufactured and available for many applications too numerous to mention. Complete data and information sent on request.

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Note—*Items marked with a single star are produced and/or marketed at San Francisco, Los Angeles, or Hammond, Indiana, only.

**Items marked with two stars are produced and/or marketed on the Pacific Coast only.

Company Directory

A Geographical List of Chemical Manufacturers, Importers and Recognized Distributors of Chemicals, Chemical Raw Materials, and Specialties

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

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BARRETT DIV, ALLIED CHEM & DYE CORP, Fairfield Bldg, Birmingham†	Birmingham 4-1147
DU PONT CO, Explosives Div, 2000 First av†	Birmingham
DU PONT CO, GRASSELLI CHEM DEPT, Protective Life Bldg†	Birmingham
HERCULES POWDER CO, 205 S 32 st, Birmingham†	3-3158
JOHNS-MANVILLE SALES CORP, Brown Marx Bldg, Birmingham†	Birmingham 4-4749
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McKESSON & ROBBINS, INC, 1706 1 av, Birmingham†	3-4171
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U S STEEL CORP, Brown-Marx Bldg†	Birmingham
VIRGINIA-CAROLINA CHEM CORP†	Birmingham
Wittichen Chemical Co, 1609 Second av S	Birmingham
Keystone Lime Wks Inc	Keystone
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Taylor Lowenstein & Co	Mobile
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	L D 9908
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REICHHOLD CHEMICALS, INC, Southern Div	Tuscaloosa

ARIZONA

Apache Powder Co	Benson
Agricultural Chems Co, 1737 E Jackson st	Phoenix
McKESSON & ROBBINS, INC, 1 & Jackson sts, Phoenix†	4-5671
Phoenix Chem Co, 912 N 19 av	Phoenix
Southern Products Co., 217 W Sherman st	Phoenix
Western Chemical Co, 625 So 5 st	Phoenix
Copper State Chem Co, 442 S Park av	Tucson
Moore & Son, 4402 E Poe st	Tucson
Arizona Mineral Corp, Aridzone	Yuma

ARKANSAS

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Arkansas Bauxite Corp	Bauxite
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Ozark White Lime Co	Fayetteville
Helena Cotton Oil Mill	Helena
Reasor-Hill Corp	Jacksonville
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PAISLEY PRODS INC, 107-A Rector st	Little Rock
Pulaski Bauxite Co, 301 Southern Bldg	Little Rock
Southwest Chem Corp, Box 66	Little Rock
Wilson Engineering Co, Post Office 208	Little Rock
Berry Asphalt Co	Magnolia
THOMPSON-HAYWARD CHEM CO, 123 S Main st, North Little Rock†	5-6646
Jefferson Chemical Wks	Pine Bluff
Dixie Bauxite Co	Sweet Home
Van Buren Zinc Co	Van Buren
West Bauxite Mining Co	West Bauxite

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AMER CYANAMID CO, Agricultural Chems Div, Azusa†	Fleetwood 4-1241
AMERICAN CYANAMID CO, Mineral Dressing Div, Azusa†	Fleetwood 4-1241
COLGATE-PALMOLIVE PEET CO, Station "A"†	Berkeley
Industrial Chem Co, 610 Hearst av	Berkeley
Industrial Minerals & Chem Co, 6th & Gilman sts	Berkeley
Microchemical Specialties, 1834 University av	Berkeley
Horn Jeffries & Co, 20 W Burbank blvd	Burbank
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Roberts Company, 1049 B'way	Burlingame
Blacks, Inc, Box 54	Casmalia

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American Luminous Prods Co, 9440 Mardrisa av	Huntington Park
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American Lignite Prods Co, Box 5	Ione
Barnett Laboratories, 6256 Cherry av, Long Beach	
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DOW CHEMICAL CO, Iodine & Insecticide Div†, P O Box 139	Long Beach
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ATLAS POWDER CO, 411 W 5th st†	Michigan 8096
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Dye Research Labs, 319 Jackson st
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Filtrol Corp, 634 S Spring st
Finch, Leon, 725 E 59 st
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Madison 6-4801
Kelite Prods Inc, Box 2917, Term Annex
KELCO CO, 630 W 6 st† **Trinity 7903**
KESSLER CHEMICAL CO INC, 1926 Santa Fe av† **Trinity 6894**
Kirk & Son, Inc, Morris P, 2717 S Indiana st
Lazer Co, J W, 2464 Enterprise
LOS ANGELES CHEM CO, 1960 Santa Fe av **Tucker 3431**
Los Angeles Soap Co, 617 E 1 st
Maas Chemical Co, AR†
MALLINCKRODT CHEM WKS, 923 E 3rd st† **Michigan 3967**
Mattson Chem Co, 124 W 4 st
McKESSON & ROBBINS, INC, 200 S Los Angeles st† Michigan 7171
McNerney Chemical Corp, 2800 E 11 st
MEFFORD CHEM CO, 1026 Santa Fe av **Trinity 6894**
MERCK & CO, INC, 129 West 2nd st† **Michigan 1351**
MONSANTO CHEMICAL CO, 714 W Olympic Blvd† Richmond 7-7201
Moorehead Co, 616 N Robertson Blvd
NATIONAL CHEMICAL CO, 1516 Industrial st **Trinity 4055**
Nobs Chem Co, 838 E Jefferson blvd
Old Colony Paint & Chem Co Labs, 620 Lamar st
PACIFIC COAST BORAX CO, 510 W 6th st **Michigan 7766**
Pacific Soap Co, Ltd, 6830 McKinley av
PENNSLYVANIA SALT MFG CO, 4320 Loma Vista av†
Pittsburg Chemical Co, 3100 E 26 st
Plant Food Corp, 2401 Medford st
REILLY TAR & CHEM CORP, 1701 Architects Bldg† **Mutual 0453**
Royal Soap & Chem Co, 3486 Union Pacific av
SHELL CHEM CORP, 1008 W 6 st† **Madison 7341**
SHERWIN-WILLIAMS CO, P C & C Div, 3170 E Pico Blvd† Angelus 4131
SINDAR CORPORATION, 1160 N Highland av† **Gladstone 2744**
Smith Chemical Co, E W, 3498 Union Pacific av
Smith Davis Paint Co, 10751 Venice blvd
Snow & Co, 3039 E 12 st
SONNEBORN SONS, INC, L, 617 W 7th st **Michigan 8501**
STAUFFER CHEM CO, 824 Wilshire blvd†
STEIN, HALL & CO INC, 1315 E 7 st†
STERWIN CHEMICALS INC, 5225 Wilshire blvd† York 0581
SYNTHETIC CHEMICALS INC, 1232 Sunset Blvd† **1382**
Thompson Co, The, H, 1733 Cordova st
Thompson Co, Wm T, 2727 Hyperion av
Thompson Horticultural Chems Corp, 3500 Monon st
Trojan Lacquer Co. 4090 E Washington blvd
TROJAN POWDER CO, 412 W 6 st† **Van Dyke 8865**
Troy Industrial Cleaning Compound Co, 2249 E 38 st
Turco Products Inc, 6135 S Central av
Union Oil Co of Calif, 617 W 7 st
U S INDUSTRIAL CHEMICALS, INC, 2030 Bay st† **Trinity 1788**
UTILITY COLOR CO, 7125 Santa Monica Blvd† **Granite 0584**
VAN AMERINGEN-HAEBLER INC, 3650 E Olympic Blvd†
Western Borax Company, Ltd, 653-685 S Clarence st
Western Chemical & Mfg Co, 3270 E Washington blvd
Western Electrochemical, 315 W 9 st

Los Angeles, Calif. (cont'd)

Western States Lacquer Co, 4400 E Washington blvd
WESTVACO CHEM DIV, Food Machry & Chem Corp, 301 West av 26 Capital 1-6161

Wholesale Supply Co, The, 1047 N Wilcox av
WILL & BAUMER CANDLE CO, INC, 954 S Flower st† Van Dyke 9008
WITCO CHEM CO, 649 S Olive st† Trinity 9573
WOLF & CO, JACQUES, 339 E 2 st† Mutual 9067
World Spray Co Inc, 4609 Avalon blvd
WYODAK CHEMICAL CO, P O Box 2457† Mutual 7115
Zip Prods Co, 12014 S Figueroa st

Specialty Resins Co, 2801 Lynwood rd Lynwood
Western States, Lacquer Co, Box 7
Barium Products Ltd, Box 920 Modesto
Snowden Chem Co, Box 905, Modesto, Calif
AMERICAN RESINOUS CHEM CORP, P O Box 97, Monrovia† Monrovia 1-4091
WESTVACO CHEM DIV, FOOD MACHRY & CHEM CORP, Newark† Newark 2811

An-Fo Mfg Co, 3129 Elmwood av Oakland
ANTARA PRODUCTS, 1639 Poplar st† Oakland
Calif Soda Co, 355 Cypress st Oakland
Chemical & Pigments Co, 766 50 av Oakland
El Dorado Oil Works, Ft of Adeline st Oakland
Gainor Mfg Co, P O Box 1271 Oakland
KAISER ALUMINUM & CHEMICAL SALES, INC, Chemical Div, 1924 Bway Oakland
McKESSON & ROBBINS, INC, 831 Castro st, Oakland† Glencourt 1-0350
West End Chemical Co, Latham Sq Bldg Oakland
Clorox Chem Co, 850 42 av, Oakland, Calif
JOHNS-MANVILLE SALES CORP, 600 16 st† Glencourt 1-1228
Calif Fruit Growers Exchange, Prods Dept Ontario
Daybell Supply Co, 130 North E st Porterville
DU PONT CO, Pigments Dept, 234 E Colorado st† Pasadena
ATLAS MINERAL PRODS CO OF PENNSYLVANIA, THE, P. O. Box 1014
Cor Bayshore & Chestnut sts, Red City† Red City 3238
Chemical Process Co, 901 Spring st Redwood City
Pacific Plastics & Chemical Co, 3046 Bayshore H'way Redwood City

Calif Spray Chem Corp Richmond
METASAP CHEM CO, 1140 S 10 st† Richmond 5656
NOPCO CHEM CO, 1140 S 10 st† Richmond 5656
Synthetic Iron Color Co, P O Box 1147 Richmond
McKESSON & ROBBINS, INC, 919 Front st, Sacramento† Gilbert 3-6861
Amer Agar & Chem Co, P O Box 431 San Diego
HILL BROS CHEM CO, 1525 S 28 st† San Diego
LOS ANGELES CHEM CO, San Diego Div, 3709 Imperial av, San Diego† Franklin 5891
McKESSON & ROBBINS, INC, 7 & J sts, San Diego† Main 9131

SAN FRANCISCO

Abbot Co, S L, 135 King st
American Cream Tartar Co, 100 Bay st
AMER CYANAMID CO, Agricultural Chems, Calco Pigment, Industrial Chems, Plastics & Resins Div, 111 Sutter st† Exbrook 2-6261
Associated Ink Co, Ltd, 237 First st
ATLAS POWDER CO, 1 Montgomery st† Garfield 1-8640
Balfour Guthrie & Co, 351 California st
Barium Prods Ltd, 70 Rickard st
BARRETT DIV, ALLIED CHEM & DYE CORP, 116 New Montgomery st† Exbrook 1808
BERK & CO, INC, F W, Coast Chem Div, 55 New Montgomery st† Garfield 5317
Braun Knecht Heimann Co, 1400 16th st
Browning, E S Co, 1615 Third st
Calif Ink Co, 545 Sansome st
CARBIDE & CARBON CHEMICALS CORP, 116 Sansome st† Douglas 1640
CELANESE CORP of AMER, 607 Market st
CIBA CO INC, 1230 Howard st† Garfield 3667
COAST CHEMICAL DIV, F W Berk & Co, Inc, 55 New Montgomery st Garfield 5317
Cole & De Graf, 417 Market st
COLGATE-PALMOLIVE-PEET CO, Stn A, Berkeley† Douglas 5015
Colloidal Prods Corp, 2598 Taylor st
Commercial Minerals Co, 310 Irwin st
COMMERCIAL SOLVENTS CORP, 110 Sutter st, San Francisco† Exbrook 2-1611
Consolidated Chem Industries Inc, 111 Sutter st
Dieckmann, J H, Jr, 110 Sutter st
DOW CHEMICAL CO, THE, Great Western Div, 310 Sansome st Garfield 8323
DU PONT DE NEMOURS & CO, (INC), E I, Electrochemicals Dept, 235 Second st† Exbrook 2-6230
DU PONT CO, Explosives Dept, 111 Sutter st† Exbrook 2286
DU PONT CO, Fabrics & Finishes Dept, 235 2 st†
DU PONT CO, Film Dept, 111 Sutter st†
DU PONT CO, Grasselli Chems Dept, 111 Sutter st†
DU PONT CO, Grasselli Chems Dept, 1400 16 st†
DU PONT CO, Organic Chem Dept, 235 2nd st† Exbrook 6230
DU PONT CO, Pigments Dept, 111 Sutter st†
EASTMAN KODAK CO, 241 Battery st† Exbrook 4780
El Dorado Oil Wks, 311 California st
Fidelity Trading Co Inc, 150 California st
FRITZSCHE BROTHERS, INC, Rialto Bldg† Garfield 1-0838
Gamlen Chem Co, 195 San Bruno av
GENERAL CERAMICS & STEATITE CORP, 598 Monadnock Bldg† Douglas 2-0388

INDUSTRIAL CHEMICALS

Griffin Chemical Company

SAN FRANCISCO LOS ANGELES

San Francisco, Calif. (cont'd)

GENERAL CHEM CO, 235 Montgomery st† Douglas 0904
GENERAL DYESTUFF CORP, 83 Clementina st† Exbrook 0300
Gilbreath Chemical Co, 333 Brannon st
GIVAUDAN-DELAWANNA, INC, 461 Market st† Sutter 1892
GRIFFIN CHEM CO, 1000 16th st Underhill 1-8610
Grove & Co, M O, 310 Sacramento st
HERCULES POWDER CO, 256 Montgomery st† Douglas 2-2390
HEYDEN CHEM CORP, 420 Market st†
Hockwald Chem Co, 135 Mississippi st
Jansen Chemical Co, 1148 Buchanan st
JOHNS-MANVILLE SALES CORP, 116 New Montgomery st† Douglas 2-4355
KESSLER CHEM CO, INC, 16 California st† Exbrook 0170
KOPPERS CO, INC, 390 9 av†
Laist Co, H R, 229 Rialto Bldg
Leslie Salt Co, 310 Sansome st
LUEDERS & CO, GEORGE, 56 Main st† Sutter 3600
MALLINCKRODT CHEM WKS, 465 California st Sutter 1-4748
Marine Magnesium Prod Corp, E Grand av
Martin Hoyt & Milne, 623 Merch Exch Bldg
McKESSON & ROBBINS, INC, 50 1 st† Sutter 1-7262
MONSANTO CHEMICAL CO, 111 Sutter st† Yukon 6-6232
Metalead Prods Corp, 978 Mills Bldg
MOUNTAIN COPPER CO, LTD, 216 Pine st Exbrook 2-3928
Nason R N & Co, 151 Potrero
NATIONAL ANILINE DIV, ALLIED CHEM & DYE CORP, 417 Howard st† Sutter 7587
ORONITE CHEM CO, 38 Sansome st Exbrook 2-6923
Pacific Carbide & Alloys Co, 351 California st Exbrook 8212
Pacific Silicate Co, 582 Market st
Pacific Vegetable Oil Corp, 62 Townsend st
Pacific Wax Refining Co, 110 Market st
Paraffine Companies Inc, 475 Brannon st
Patek & Co, 1900 16th st
PITTSBURGH PLATE GLASS CO, Columbia Chem Div, 441 Market st†
Quandt Chemical Co, 274 Guerrero st
Quicksilver Prods Association Inc, 407 Sansome st
ROHM & HAAS CO, 25 Beale st†
SHELL CHEMICAL CORP, 100 Bush st Exbrook 2-5400
Sinclair & Valentine Co of Calif, 237 1 st
STAUFFER CHEMICAL CO, 636 California st† Sutter 1-5350
STERWIN CHEMICALS INC, 340 9 st† Market 1-1382
Stuart Oxygen Co, 351 California st
TROJAN POWDER CO, 620 Market st† Garfield 1-3114
Tweedy, Cole & De Graf, 16 California st
U S Lime Products Corp, 57 Post st
U S INDUSTRIAL CHEMICALS, INC, 15th & Vermont sts† Market 4310
U S STEEL CORP, 25 Beale st†
VAN AMERINGEN-HAEBLER INC, 15 & Vermont sts†
Vogel Luminescence Corp, 260 Napoleon st
Wheeler, Reynolds & Stauffer, 636 California
Wilson Co, T C, 503 Market st
Winther & Co Inc, S A, 225 Front st
WITCO CHEM CO, 785 Market st† Garfield 1-7336
Wood, Paul W & Co, 350 Townsend st
ZOPHAR MILLS, INC, 816 11 st†

Productol Co, Box 426 Santa Fe Springs
Spencer Soap & Chem Co, 1619 20 st Santa Monica
WOLF & CO, JACQUES, 737 Alegria av† Sierra Madre
MAAS CHEM CO, 4570 Ardine st, So Gate, Calif Kimball 2214
Purex Corp, 9800 Rayo av South Gate
METAL & THERMIT CORP, East Grand av, South San Francisco† Randolph 8287
REICHHOLD CHEMS INC, Western Div, Linden av† S San Francisco
Van Camp Laboratories Terminal Island
LEFFINGWELL CHEMICAL CO, P O Box 191, Whittier Oxford 43-653
Vegetable Oil Prods Co Inc, 410 S Avalon Blvd Wilmington

COLORADO

ARAPAHOE CHEMICALS INC, 2800 Pearl st, Boulder — Boulder 613
Tungsten Production Co, The — Boulder
Empire Zinc Co — Canon City

DENVER

Banner Mfg Co, 3551 Blake st
CAREY, THE PHILIP MFG CO, 3343 Walnut st† — Cherry 4511
COLGATE-PALMOLIVE-PEET CO, 1863 Wazee st† — Tabor 2732
Colorado Fuel & Iron Corp, Continental Oil Bldg
Crown Tar Wks, Div of Public Service Co of Colorado, 900 15th st
DENVER FIRE CLAY CO, 2301 Blake st — Tabor 0251
DIAMOND ALKALI SALES CORP, % North Denver Transfer & Storage Co, 2106 Blake st†
DU PONT CO, Explosives Dept, 444 17th st† — Main 1233
DU PONT CO, Polychemicals Dept, Midland Savings Bldg†
GENERAL CHEM CO, 1371 W Bayard av, P O Box 4840† — Pearl 2666
HERCULES POWDER CO, 650 17 st† — Tabor 5306
Hyman & Co, Julius, Box 2171
JOHNS-MANVILLE SALES CORP, 1755 Glenarm pl† — Keystone 6378
Johnson, S C & Son, Inc, 1868 Wazee st
Lee Soap Co, 3042 Fox st
Majestic Wax Co, 2139 Blake st
MERCHANTS CHEM CO, INC, 1211 W 44 av — Glendale 1643
McKESSON & ROBBINS, INC, 1354 Lawrence st† — Acoma 1751
Mine & Smelter Supply Co, 1423 17 st
Monarch Chemical Works
PAISLEY PRODS INC, 224 W Alameda av — Rare 2903
Shattuck Chemical Co, S W, 1805 So Bannock st
THOMPSON-HAYWARD CHEM CO, 1501 W 15th st† — Keystone 1231

Stewart Chemical Prod Co — Longmont

CONNECTICUT

Foy Electro-Chem Co, P O Box 164 — Ansonia
Technical Chem Corp, 500 Plumtrees — Bethel
Berkshire Chem Co, 92 Howard av — Bridgeport
Bostwick Labs Inc, 706 Bostwick av — Bridgeport
Conlin Co, The, 60 Elm st, — Bridgeport
GENERAL CHEMICAL DIV, ALLIED CHEM & DYE CORP, 534 Worden av, West End P O† — Bridgeport 4-3419
Remington Arms Co — Bridgeport
ZOPHAR MILLS, INC, 913 Main st† — Bridgeport
Macdermid Chem Co, W D, 81 Main st — Bristol
Stanley Chem Co — E Berlin
DU PONT CO, Fabrics & Finishes Div† — Fairfield
Judson Co, Dwight R, 466 Main st, Hartford
Laundry & Textile Sup Co, 461 Prospect av — Hartford
PHILIPP BROTHERS CHEMICALS INC, 410 Asylum st† — Hartford 2-7744
Sisson Drug Co, 729 Main st — Hartford
Starbuck & Sons Inc, R M — Hartford
Ernst Beschoff Co, Inc — Ivoryton
Tredennick Paint Mfg Co, The, 464 Pratt st — Meriden
Worth-Spar Co, 363 Main st, — Middletown
Westville Labs, Monroe Center
Naugatuck Chemical, Div of U S Rubber Co — Naugatuck
DIAMOND ALKALI SALES CORP, % Davis Storage Co, 335 E st† New Haven, Conn
Enthone Inc, 442 Elm st — New Haven
Holden Co, A F, The, P O Box 1898 — New Haven
CARWIN CO, Stiles Lane, North Haven — New Haven 2-2161
DU PONT CO, Grasselli Chems Dept, 185 Church st† — New Haven
Livingston Co, The, 189 Amity rd — New Haven
HUMPHREY-WILKINSON, INC, De Vine st, North Haven — New Haven 2-7771
Stonecrop Chemical Co, Box 131 — North Stonington
Norwich Tallow Co, Talman st — Norwich
Parker-Preston Paint Co Inc, 58 Shetucket st — Norwich
Seymour Mfg Co — Seymour
Mullite Refractories Co, The — Shelton
EDCAN LABS, 10-20 Pine st, S Norwalk — Norwalk 6-9005
CUPRINOL DIV, DARWORTH, INC, Simsbury, Conn — Simsbury 42
Springdale Shellac Co, The, Inc, Hope st — Springdale
AROMATIC PRODUCTS INC, 18 Elmcroft rd, Stamford — Murray Hill 4-7875
ATLAS POWDER CO, Industrial Finishes Dept, Canal & Ludlow sts, Stamford — Stamford 3-3171
ENGLISH MICA CO, THE, Sterling Bldg, Stamford — Stamford 4-9531
Stamford Rubber Supply Co, Shippan av — Stamford
Holmerden Co, The, 4021 N Main st — Stratford
American Brass Co, 414 Meadow st — Waterbury
Apothecaries Hall Co, 8-28 Benedict st — Waterbury
Chase Brass & Copper Co, 236 Grand st — Waterbury
Lea Mfg Co, 16 Cherry av — Waterbury
Scovil Mfg Co — Waterbury
Dolge Co, The C B. — Westport

DELAWARE

Purocaine Inc, — Hockessen
Atlantic Fisheries Co — Lewes
Consolidated Fisheries Co — Lewes

WILMINGTON

ATLAS POWDER CO, 9th & Market sts — Wilmington 6-8341
Bayer Semesan Co, Inc, Nemours Bldg
DU PONT DE NEMOURS & CO, (INC), E I, — Wilmington 4-5121
ELECTROCHEMICALS DEPT, Du Pont bldg — Wilmington 4-5121
EXPLOSIVES DEPT — Wilmington 4-5121
FABRICS AND FINISHES DEPT — Wilmington 4-5121
GRASSELLI CHEM DEPT — Wilmington 4-5121
ORGANIC CHEM DEPT — Wilmington 4-5121
PETROLEUM CHEMS DIV, Nemours bldg
PHOTO PRODS DEPT — Wilmington 4-5121
PIGMENTS DEPT — Wilmington 4-5121
POLYCHEMICALS DEPT — Wilmington 4-5121
RAYON DEPT — Wilmington 4-5121
Gardinol Corp
Halby Chemical Co Inc, Box 366
HERCULES POWDER CO INC, 978 Market st — 7211
Miller, C Franklin, 18 W 30th st
Morey Flux & Chemical Co, 1813 Williamson st
Pyrites Co, Inc, Christiana av
Synvar Corp, 415 E Front st
VIRGINIA-CAROLINA CHEMICAL CORP, P O Box 1469, Murchison Bldg†

DIST. OF COLUMBIA

Capitol Printing Ink Co Inc, 806 Channing Pl, N E — Washington
Dodson Inc, Norris A, 2255 S st N W — Republic 6608
THE DOW CHEMICAL CO, 915 Shoreham Bldg† — National 5796
JOHNS-MANVILLE SALES CORP, 15 & H sts, N W — Decatur 3100
MATHIESON CHEM CORP, 1625 Eckington pl N E†
National Engr Prods Inc, Commerce & Savings Bldg

FLORIDA

STAUFFER CHEMICAL CO, P O Box K, Apopka† — Apopka 2341
Lakeland Phosphate & Fert Co — Bartow
AMERICAN CYANAMID CO, Agricultural Chems Div, Brewster† — Mulberry 3201
American Diatomite Co — Clermount
Cartledge Fertilizer Co, Front st — Cottondale
Nassau Fertilizer & Oil Co, Inc — Fernandina
Pineland Turpentine Co — Ft Green
Cabot Carbon Co, Box 187 — Gainesville
China Tung Oil Inc — Gainesville
Retort Chem Co, P O Box 137 — Gainesville
National Turpentine Prods Co — Gull Point
UNITED CLAY MINES CORP, Alachua County† — Hawthorn

JACKSONVILLE

Alexander Co, R L, P O Box 1024, Jacksonville
Antwerp Naval Stores,
ATLAS MINERAL PRODS CO, THE†
Chemical Prods & Equipment Co, Inc, 609 N Myrtle av
COLGATE-PALMOLIVE-PEET CO, 505 Hildebrandt Bldg† — 5-5573
Colledge, E W, G S A, Inc, P O Box—889
Consolidated Naval Stores Co, 1816 Barnet Bk Bldg
Glidden Co, The, Naval Stores Div, Crestwood-Burton
Goodwin-Medlin Naval Stores Co
Jacksonville Rosin Co
JOHNS-MANVILLE SALES CORP, Consolidated Bldg — 6-3951
Laclede Laboratories, 10 S Church st
Miller Machinery & Supply Co, 106 E Church st
McKESSON & ROBBINS, INC, 25 N Market st† — 5-1191
Nelio Resin Processing Corp, Box 389
Peninsular Naval Stores Co
Relaco Rosin Prods Co, Box 4757
Southern Pine Chem Co, Div of the Glidden Co, P O Box 389
White Star Chemical Corp, 2080 E Adams st

WOBURN CHEMICAL CORP† — Lake Wales
Buttgenbach & Co, Box 27 — Lakeland
Lulu Turpentine Co — Lulu

Advertisers Branch Sales Offices Are Marked (†)

Florida (cont'd)

Marianna Lime Prods Co — Marianna
Biscayne Chem Labs, 2207 NE 2nd av — Miami
Columbia Chem & Supply Co, 60 E 73 st — Miami
McKESSON & ROBBINS, INC, 200 N E 11 st, Miami† — 89-5661
Somay Products, Inc, Box 6128, Sta B — Miami
Williams Chem Corp of Miami, 555 N W 5th st
Dixie Lime Products Co — Ocala
Loncala Phosphate Co, M & C Bank Bldg — Ocala
Superior Earth Co — Ocala
Florida Agric Sup Co, 1040 W Amelia av — Orlando
Pruden Chem Co, Box 1106C — Orlando
VIRGINIA-CAROLINA CHEMICAL CORP, 423 S Orange av, Orlando† — Orlando 5174
Walker Fertilizer Co, RFD 2, Box 33A — Orlando
AMERICAN AGRIC CHEM CO, P O Box 1617, Pensacola† — Pensacola 4251
Southern Pine Extract Co, 922 E Gregory — Pensacola
West Florida Naval Stores Co, 28 E Cedar st — Pensacola
AMERICAN AGRIC CHEM CO, Pierce† — Pierce 1
Florida Menhaden Co — Port St Joe
TENNESSEE CORP, U S Phosphoric Products Div, Tampa† — Y-1681
Wakulla Turpentine Co — Wakulla

GEORGIA

Americus Oil Co — Americus
Empire State Chem Co — Athens
AMERICAN CYANAMID CO, Agricultural Chems Div, 109 Sage st, Toccoa† — Toccoa 121

ATLANTA

AMERICAN AGRIC CHEM CO, P O Box 1656† — Calhoun 8113
AMERICAN MINERAL SPIRITS CO, 22 Marietta st† — Walnut 7310
AMERIAN POTASH & CHEM CORP, 214 Walton Bldg† — Walnut 3561
Amer Lecithin Co
Armour Fertilizer Works, Walton Bldg, Atlanta, Ga
Ashcraft Wilkinson Co, Trust Co of Ga Bldg
Atlanta Chem Co, 858 Ashby NW
ATLAS MINERAL PRODS CO, THE†
CAREY, THE PHILIP MFG CO, 666 Greenwood av, N E† — Hemlock 2875
CARBIDE & CARBON CHEMICALS CORP, 310 Peachtree st† — Raymond 0138
Cohen, Harry, 982 Virginia av, NE
COLGATE-PALMOLIVE-PEET CO, Rm 540 Hurt Bldg† — Walnut 7035
THE DAVISON CHEM CORP, Read Phosphate Div, 809 Standard Bldg† — Walnut 1566-7
DU PONT CO, Film Dept, 619 Peachtree st, N E† — Vernon 5831
DU PONT CO, Finishes Div, 619-21 Peachtree st NE†
DU PONT CO, Grasselli Chems Dept, 129 Peachtree st, NE†
DU PONT CO, Organic Chems Dept, 1206 Spring st, N W†
DU PONT CO, Photo Prods Dept, Candler bldg†
Eates Surgical Supply Co, 86 Auburn av N E
FRITZSCHE BROTHERS INC, William-Oliver Bldg† — Alpine 2736
FULTON BAG & COTTON MILLS, P O Box 1736 — Main 1111
GENERAL CHEM DIV, ALLIED CHEM & DYE CORP, 45 Edgewood av, S E† — Main 1278
HERCULES POWDER CO, 134 Peachtree st† — Walnut 3201
JOHNS-MANVILLE SALES CORP, 101 Marietta st† — Walnut 8320
Morris Co, L C, 1125 Spring st N W
NATIONAL ANILINE DIV, ALLIED CHEM & DYE CORP, 140 Peachtree st† — Ma 0000
Quality Chem & Sup Co, 167 Trinity av SW
Seydel-Woolley & Co, 748 Rice NW
Southern Talc Co, 301 Grant Bldg
STERWIN CHEMICALS INC, 152 Peters st, S W† — Cypress 1626
TENNESSEE CORP, P O Box 2205 — Walnut 4210
Texco Chemicals Inc, Box 4748
VIRGINIA-CAROLINA CHEMICAL CORP, P O Box 1746, 605-10 Healy Bldg†
Wellington Sears Co, Trust Co of Georgia Bldg
WYANDOTTE CHEMICALS CORP, Michigan Alkali Div, 443 Hurt Bldg† — Walnut 1178

ATTAPULGUS CLAY CO† — Attapulgus
Augusta Chemical Co, Box 660 — Augusta
Wingard Fertilizer Co 1842 Grand blvd — Augusta
CHEMICAL PRODS CORP, Cartersville — 798
Ladd Lime & Stone Co — Cartersville
New Riverside Ochre Co — Cartersville
White Manganese Corp — Cartersville
METASAP CHEM CO, Box 1003, Cedartown† — 230
NOPCO CHEMICAL CO, Box 1003, Cedartown† — 230
Southern Mining & Milling Co — Clarksville
WOLF & CO, JACQUES, 9th st & 10th av, Columbus† — Columbus 1127
Cordele Turpentine Co — Cordele
DAVISON CHEM CORP, The Read Phosphate Div, Cordele† — Cordele 56 & 82
Cohutta Talc Co, The, Box 363 — Dalton
Specialty Products Co, 121 W Bank st — Griffin
WARWICK CHEM CO DIV, Box 123, Griffin† — Griffin 4477
La Grange Cotton Oil Co — La Grange
McKESSON & ROBBINS, INC, 440 Bway, Macon† — Ivy 2016

Georgia (cont'd)

Southern Paint & Varnish Co, 561 Mulberry st — Macon
Dyal Naval Stores Co — McRae
Telfair Pine Tar & Oil Co — McRae
Alpha Turpentine Co — Pembroke
Porterfield Graphite Mines, RFD No 2 — Royston
Southern Fertilizer & Chemical Co — St Marys
UNITED CLAY MINES CORP, Box 345† — Sandersville 238

SAVANNAH

AMER AGRIC CHEM CO, Box 567† — Savannah 3-1221
Atlantic Turpentine & Pine Tar Co, P O Box 601
Carson Naval Stores Co, Liberty Bank & Trust Bldg
Columbia Naval Stores Co
Crum & Co, Lewis, 222 E Bay st
DAVISON CHEM CORP, Read Phosphate Div† — Savannah 2-2125-2134
Dennelion Phosphate Mining Co, Box 157
Farie Naval Stores Co, Citizens Tr Bldg
Georgia Rosin Prods Co, P O Box 737
Gillican Chipley Sales Co, Savannah Bank & Trust Bldg
Independent Naval Stores Co, Augusta rd
International Vegetable Oil Co, Augusta rd
Nash & Co, E S, 301 American Bldg
Operators Factorage Co, Inc, Savannah Bk & Tr Bldg
Opper, Inc, F H
Pine Prod Export Co, Savings Bk & Trust Bldg
Reliance Fertilizer Co, 106 Bay st E
Savannah Kaolin Co, 314 American Bldg, P O Box 184
Southern States Naval Stores Co, Realty Bldg
Southport Paint Co, Inc, 555 Lathrop av
Thorpe Co, R E, Realty Bldg
VIRGINIA-CAROLINA CHEM CORP, P O Box 738, 1260 Lathrop av† — Savannah 2-4473
Woody, Wm J, 5 River st E

Hall, J W & C I — Swainsboro
Turpentine & Rosin Factors, Inc — Valdosta

IDAHO

Gardner Davis Industries — Lewiston
Voltuff Products Co — New Plymouth
WESTVACO CHEMICALS DIV, Food Machinery & Chem Corp, P O Box 1668, Pocatello† — 3800
Yellow Pine Co — Valley County
Golconda Lead Mines, Inc — Wallace

ILLINOIS

Abingdon Potteries Inc, 801 N Main st, Abingdon
Mississippi Lime Co — Alton
Reliance Whiting Co, 16th Alton Railroad — Alton
Illinois Kaolin Co — Anna
Coal Prods Mfg Co — Aurora
Stephen-Adamson Mfg Co, 699 Ridgeway av — Aurora
Belleville Rendering Co, Freeburg rd — Belleville
Johnson Bros Rend Wks, 719 Ann st — Belleville
CHICAGO COPPER & CHEMICAL CO, 127th & Division sts, Blue Island — Blue Island 606
Hawk-Eye Compound Co, 140 st & Seeley av — Blue Island
Illinois Minerals Co 807½ Washington av — Cairo
Interstate Mill & Storage Co — Cairo
Olive Branch Mineral Prods Co — Cairo
MARLYN CHEMICAL CO, INC, 156 S Forsythe, Calumet City — Torrence 2-6962
Benzon Fluorspar Co — Cave-in Rock

CHICAGO

Abart Chem Co, 1000 Terminal Bldg
Abcarlton & VanderSmissen, 536 So Clark st
Ace Paint Products Co, 2539 W Lake st
Acid Products Corp, 4010 S Wells st
Acme Oil Corp, 1645 S Kilbourne av
Adams & Co, Fred C, 308 W Washington st
ADVANCE SOLVENTS & CHEMICAL CORP, 230 E Ohio st† — Whitehall 7155
ALKYDOL LABS INC, 3343 S 50 av† — Crawford 7276
Allen Co, Inc, L B, 6719 W Bryn Mawr av
Alabastine Paint Prods, 2639 W Grand av
Allen Metal Wks, L D, 224 S Michigan av
Allied Mills, Inc, Bd of Trade Bldg
Alston-Lucas Paint Co, 1031 N Throop st
American Bandage Corp, Ind Chem Div, 325 W Ohio st, Chicago
AMERICAN COLLOID CO, Merchandise Mart Plaza — Superior 7-5637

MARLYN CHEMICAL CO.
156TH ST. AND FORSYTHE AVE.
CALUMET CITY, ILLINOIS
TELEPHONE: TORRENCE 2-6962

Chemical Specialties for the

- *Laundry*
- *Dry Cleaning*
- *Foundry and*
- *Metal Working Trades*

Chicago, Ill. (cont'd)

AMERICAN CYANAMID CO, Agricultural Chems Div, 20 N Wacker dr† Randolph 6-6263
AMERICAN CYANAMID CO, Explosives Dep, 20 N Wacker dr† Randolph 6-6263
AMERICAN CYANAMID CO, Industrial Chems Div, 20 N Wacker dr† Randolph 6-6263
AMERICAN CYANAMID CO, Plastics & Resins Div, 20 N Wacker dr† Randolph 6-6263
AMERICAN DYEWOOD CO, 110 North Franklin st† **State 0327**
American Extract Co, 201 N Wells st
Amer Linseed Co, 2200 Lumber st
American Lumber & Treating Co, 332 S Michigan av
AMERICAN MINERAL SPIRITS COMPANY, 234 N Michigan av Andover 3050
AMERICAN POTASH & CHEMICAL CORP, 111 W Washington st† **Randolph 9285**
AMERICAN RESINOUS CHEM CORP, 809 W Madison st† **Haymarket 4557**
AMERICAN ZINC SALES CO, 77 W Washington† Central 5407
ANSBACHER-SIEGLE CORP†
ANSUL CHEM CO, 20 N Wacker Dr† Central 9378
ANTARA PRODUCTS, 247-39 E Ontario st†
Anton-Murray Co, 537 S Dearborn st
Apex Motor Fuel Co, 1401 W North av
Appelgate Chemical Co, 5632 Harper av
ARCHER-DANIELS-MIDLAND CO, 927 Black Hawk st† Michigan 6870
Armiger Chemical Co, 2155 W Hubbard st
ARMOUR & CO, 1355 W 31 st Lafayette 3-7000
Armstrong Paint & Varnish Wks, 1330 S Kilbourn st
Arrow Petroleum Co, 7419 Franklin Forest Park
Associated Chemists, Inc, 3947-49 N Oakley av
Atlantic Lard Co, W 41st & S Ashland sts
ATLAS IMPORT CO, 510 N Dearborn st Superior 7-8646
ATLAS MINERAL PRODS CO, THE, 333 N Michigan av† Franklin 7100
ATLAS POWDER CO, 135 S La Salle st† Franklin 2-9531
Avondale Chemical Co, 1032 N Cleveland av
BAKER CASTOR OIL CO, THE, 105 W Adams st† Randolph 0638
BAKER CHEM CO, J T, 435 N Michigan av† Superior 6181
Barber Co, W H, 3650 S Homan av
Barco Chem Prods Co, 701 S La Salle st
BARRETT DIV, ALLIED CHEM & DYE CORP, 2800 So Sacramento av† Lawndale 1500
Barton Chemical Co, 3909-11 S Langley av
Beck Co, Arthur, 6022-24 Blackstone av
Bee Chemical Co, 63 E Lake st
Bell Co Inc, The, 411 N Wolcott av
Beltonic Products Co, N Leclaire & Moffat sts
Bestever Products Co, 4642 No Central Irving Pk Rd
BINNEY & SMITH CO, 228 N La Salle st† Central 1426-7
BLOCKSON CHEM CO† Bishop 2-1230
Bowers Printing Ink Co, 711 W Lake st
Bradley Mfg Co, A J, 565 W Washington blvd
Bradshaw, Praeger & Co, 3252 W 47th pl
Bray Chemical Co, 2010 S Marshall blvd
Breen, Frank J, 5340 S Maryland av
BRIDGE CHEMICAL CO INC, 2525 W Madison st Seeley 8-2712
BROOKE CO, FRED L, 3340 N Halsted st Graceland 7-3030
BROOKLYN COLOR WKS, INC, 3340 N Halsted st†
Cable Chem Wks, 185 N Wabash av
Calcium Carbonate Co, 22 W Adams st
Calo Co Inc, Philip E, 333 N Michigan av
Capitol Chemical Co, 2320 N Seeley av
CARBIDE & CARBON CHEMICAL DIV, Union Carbide & Carbon Corp, 230 N Michigan av† Randolph 8633
CAREY, THE PHILIP MFG CO, 2627 W Roosevelt Rd† Crawford 3373
Carter White Lead Co, West Pullman
CELANESE CORP OF AMER, 1514 Merchandise Mart†
Central Commercial Co, 332 S Michigan av
Central Products Co, 218 W Ohio st
Central Solvents & Chems Co, 2545 W Congress st
Ceresit Waterproofing Corp, 3227 S Shields av
Chambers Co, John C, 1827 Leclaire av
CHAPMAN CHEM CO, 333 N Michigan av† Dearborn 2-0642
CHEMICAL BY-PRODUCTS CO, 135 S LaSalle st
Chem Distributors, Inc, 1353 N North av
Chemco Prod Co, Inc, 1059 E 76 st
Chemical Engineering Sales Co, 2931 S La Salle st
Chemical Mfg Sales Co, 2967 S La Salle st

Chicago, Ill. (cont'd)

Chemical Novelties Corp, 208 N Wells†
Chemical Specialties, 29 E Madison st
Chemicals, Inc, 1217 W 37 st
Chicago Color Co, W Randolph st
CHICAGO COPPER & CHEMICAL CO†
Chicago Fire Brick Co, 1467 Elston av
Chicago Glue Corp, 107 S Clinton st
Chicago Putty Wks, 2333 N Hayne av
Chicago Sanitary Prods Co, 3100 S Troop st
CIBA CO, INC, 325 W Huron st† Superior 5674
Clair Mfg Co, 7640 Vincennes
Cleary Corp, W A, New Brunswick Rd
CLINTON CO, THE, 1210 Elston av Armitage 4460
Coal Chems Inc, 68 W Washington st
COLGATE-PALMOLIVE CO, 919 N Michigan av† Whitehall 6600
Commerce Petroleum Co, 2980 Archer av
COMMERCIAL SOLVENTS CORP, 1317 W Fullertown av† Lincoln 7121
Compressed Industrial Gases, Inc, 221 No LaSalle st
Concrete Materials Corp, 318 W Hubbard st
Consolidated Chem Mfg Co, 5537 W Congress av
Cooper Co, D C, 1467 So Michigan av
Cosmetic Mfg Sup Co, 2967 S La Salle st
Crane Co, 836 S Michigan av
Crescent Bronze Powder Co, 116 W Illinois st
CROWLEY TAR PRODUCTS CO, 1200 N Ashland av† Brunswig 6812
Daigger & Co, A, 159 W Kinzie st
DARLING & CO, 4204 S Ashland av Yards 7-3000
Davidson Commission Co, The, 327 S La Salle st
DAWE'S VITAMINS, INC, 4800 S Richard st Virginia 8710
Dearborn Chemical Co, 310 S Michigan av
DE LAMAR-HENDREY CHEMICAL CO INC, 461 Erie st Michigan 2-2860
Delft Co, 20 E Jackson Blvd
Demert & Dougherty, 3001 W 47 st
DIAMOND ALKALI CO, 20 N Wacker dr† State 9550
DICALITE CO, THE, 520 N Michigan av† Whitehall 5280
Dick Co, A B, 720 W Jackson Blvd
Diener Mfg Co, The, Geo W, 400 N Monticello av
Diversey Corp, The, 1820 Roscoe st
Division Lead Co, 836 W Kinzie st
Dolan & Co Inc, V J, 1830 N Loramie av
DOW CHEMICAL CO, 4101 Field Bldg† Andover 4131
Daigger Co, A, 159 W Kenzie st
Diener Mfg Co, The, 400 N Monticello av
DUCHE, T M & SONS, INC, 61 W Kinzie st† Superior 8253
DU PONT DE NEMOURS & CO INC, E I, Electrochemicals Dept, 7 S Dearborn st† Andover 3-7000
DU PONT CO, Explosives Dept, 332 S Michigan av† Wabash 6140
DU PONT CO, Fabrics & Finishes Div, 2100 Elston av† Brunswick 6900
DU PONT CO, Film Dept, 7 S Dearborn st†
DU PONT CO, Grasselli Chem Dept, 2101 Canalport av
DU PONT CO, Organic Chems Dept, 7 S Dearborn† Andover 3424
DU PONT CO, Photo Prods Dept, 3289 N California av†
DU PONT CO, Pigments Dept, 20 N Wacker dr†
DU PONT CO, Polychemicals Dept, 7 S Dearborn st†
DU PONT CO, Rayon Dept, 7 S Dearborn st†
EASTMAN KODAK CO, 1727 Indiana av† Calumet 6990
Electro Glo Co, 1430 So Talman av
Elliott Paint & Varnish Co, 4525 S av
Ellis Co, Wilbur, 141 W Jackson st
Emulsol Corp, The, 59 E Madison st
ESTON CHEMICALS, INC, 4900 W Madison st† Columbus 18405
Excello Drug Imp Co, 1424 S Kolin av
Fairchild Soap Co, 8 W Hubbard st
Fansteel Metallurgical Corp, 2200 Sheridan rd
Finn Co, J B, 130 N State st
FIRMENICH & CO, 612 N Michigan av† Superior 8441
Fletcher Eichman & Co, 5810 S Perry av
Food Materials Corp, 2521 W 48th st
FRITZSCHE BROTHERS, INC, 118 W Ohio st† Superior 7-1848
Furnam Co, James H, 59 E Van Buren st
Garden City Laboratories, Inc, 2744 W 37 pl
Gardiner Metal Co, 2814 W 48 pl
GARTENBERG & CO INC, H, 412 W Pershing rd Boulevard 6400
Gatke Corp, 228 N La Salle st
GEIGY CO, INC, 629 W Washington Blvd† State 3538
GENERAL CERAMICS & STEATITE CORP, 20 N Wacker dr† Randolph 6-2226
GENERAL CHEM CO, 3357 W 47 Pl† Virginia 3040
GENERAL DYESTUFF CORP, 310 W Polk st† Harrison 3771
General Paint & Varnish Co, 2001 Mendell st
General Soap Co, 2215 Ford av
GENERAL WAX REFG CO, 14 E Jackson blvd†
Genecke Bros, W 48 pl & S Whipple st
GIVAUDAN-DELAWANNA, INC, 605 W Washington Blvd† Franklin 4858
Glidden Co, The, Soya Prods Div, 5165 W Moffat st
Glorau & Co, 1910½ W Birchwood av
GLYCOL PRODUCTS CO, INC, 435 N Michigan av
GOLDSMITH BROS SMELTING & REFG CO, 109 N Wabash av Randolph 6-0232
GORIS & CO, 8124 S Hoyne av Triangle 4-6200
Gradv & Neary Ink Co, 117 W Harrison st
Great Lakes Chemical Co, 2525 50 av
Great Lakes Varnish Wks Inc, 2215 N Pulaski rd
Great Western Smelt & Refg Co, 600 W 41 st
GREEFF & CO, R W, 1905 Tribune Tower† Whitehall 6960
Griffith Laboratories, 1415 W 37 st
Haering & Co Inc, D W, 205 W Wacker Drive
HALL CO, C P, THE, 7342 S Shore Drive† Saginaw 7635
HARSHAW CHEMICAL CO, 505 N La Salle st Delaware 7969
Hart & Harrington Inc, 925 Weed st
Haze, Inc, Harry, 435 N Michigan av
Heller & Co, B, Calument av & 40 st
HERCULES POWDER CO, 332 S Michigan av† Harrison 7-5230
Herrmann Glue Co, Jos F, 2770 West 35th st
HEYDEN CHEMICAL CORP, 20 No Wacker Drive† State 2-6480

Chicago, Ill. (cont'd)

Hillside Fluorspar Mines, 38 S Dearborn st
Hirst & Begley Linseed Wks, 900 W 18th st
Holland & Son, Harry, 400 W Madison st
Holland Varnish & Paint Co, 1856 N Leclaire av
Huegel-Nugent Petroleum Co, 4820 S Richmond st
HUISKING & CO, INC, CHAS L, 333 N Michigan av
HUNT CO, PHILIP A, 2100 W Fullerton av† Humboldt 8500
Hysan Products Co, 932 W 38 pl
Illinois Bronze Powder Co, Inc, 564 W Monroe st
Illinois Lead Co, 2501 So Hoyne st
Illinois Smelt & Refg Co, 3752 So Calif av
Illinois Steel Co, 208 S LaSalle st
Illinois Zinc Co, 3959 A 47th st
INDOIL CHEMICAL CO, 910 S Michigan av Harrison 7-9200
Inflico Inc, 325 W 25 pl
Inland Steel Co, 38 S Dearborn st
INNIS, SPEIDEN & CO, INC, 722 W Hubbard st† Haymarket 0991
Insect-O-Cide Laboratories, 4914 N Winchester
International Emulsifiers, Inc, Surrey Court, Diversey
International Minerals & Chem Corp, 20 N Wacker dr
Jacoby & Co, C H, 327 So LaSalle st
Jelly & Co Inc, Walter H, 420 N Western av
Jensen & McClelland, 510 No Dearborn st
Jewel Paint & Varnish Co, 845 N Western av
JOHNS-MANVILLE SALES CORP, Merchandise Mart Plaza Delaware 7-1144
JOHNSON & JOHNSON, 4943 W 65th st Portsmouth 7-0800
JOHNSON & JOHNSON, Filter Prods Div, 4943 W 65th st Portsmouth 7-0800
Johnson Co, Lloyd S, 2241 Indiana av
Johnson Gas Appliance Co, 725 W Washington blvd
Johnson Prods Co, 110 W Washington Blvd
Jordan Co, 51st st & Merrimac av
K & L Chem Co, 3210 Irving Pk rd
Kano Labs, 75 E Wacker dr
KELCO CO, 20 N Wacker dr† Franklin 2-4650
Kerns Co, Inc, The, L R, 2657 E 95 st
KESSLER CHEMICAL CO, INC, 4100 LaSalle st† Boulevard 2000
Keto Labs, 4608 S State st
Keystone Amiline & Chem Co, 321 N Loomis st
Kester Solder Co, 4201 Wrightwood av
Kocour Co, 4800 S St Louis av
KOPPERS CO INC, Chemical Div, 122 S Michigan av†
KRAFT CHEM CO, 917 W 18 st Seeley 3-1919
KRAFT FOOD CO, 500 Peshtigo ct
Lake Chemical Co, 3052 W Carroll av
Lanair Chemical Corp, 236 W North st
LA PINE & CO, ARTHUR S, 125 W Hubbard st Superior 4365
Lechner, Carl A, 220 E Ohio st
LEEDS & NORTHRUP CO, 907 N Michigan av† Central 5428
Lehigh Lime Co, 111 W Washington st
LENNIG, CHARLES & CO, 930 N Halsted st† Mohawk 3234
L'Hommedieu & Sons, Co, 4251 Ogden av
Lily Chem Co, 1760 Olybourn av
Linick Chemical Co, 29 E Madison st
Linick, Leslie L, 29 E Madison st
Liquid Carbonic Corp, The, 3100 S Kedzie st
Long Chem Co, 861 W Superior st
LUEDERS, GEORGE & CO, 510 N Dearborn st† Superior 7462
Macco Products Co, 525 W 76 st
MacGregor Lead Co, John R, 4520 W 15 st
MAGNUS-MABEE & REYNARD, INC, 221 N LaSalle st† State 1041
MAHER COLOR & CHEMICAL CO, 355 W Ontario st Superior 7-9432
Maintenance Chemicals Co, 4534 Lincoln av
Malleable Asphalt Co, 6355 Bway
MALLINCKRODT CHEMICAL WKS, 307 N Michigan av State 2-1600
Marblehead Lime Co, 59 E Madison st
MARCUS-RUTH-JEROME CO, 327 S LaSalle st Harrison 7-1760
Markal Co, 3052 W Carroll av
Martin Varnish Co, 900 W 49 pl
MATHIESON CHEM CORP, 410 N Michigan av† Superior 7144
METASAP CHEM CO, 3625 Jasper pl† Lafayette 3771
Medusa Portland Cement Co, 228 N La Salle st
MERCHANTS CHEM CO INC, 3100 S California av Cliffside 4-1100
MERCK & CO. INC, 110 N Franklin st† State 1876
METAL & THERMIT CORP, 7300 So Chicago av† Midway 6400
Mertz Co, L Carlton, 1638 S Normal av
McKESSON & ROBBINS, INC, 540 W Randolph st† Franklin 2-8534
Mid Continent Chemical Corp, 6803 North Clark st
Millergum Co, 6665 So Nashville av
Mineral Point Zinc Co, 205 W Wacker dr
Mineral Solvents Co, 600 S Michigan av
MONSANTO CHEMICAL CO, Merchandise Mart Bldg, Merchandise Mart Plaza Whitehall 4-6750
Moore & Co, E B, 185 N Wabash av
Morgan, Inc, Clarence, 919 No Michigan av
Morningster, Nicol, Inc, 1770 Canalport av
Mortell Co, T W, 310 S Michigan av
National Aluminate Corp, 6216 W 66 Pl
NATIONAL ANILINE DIV, ALLIED CHEM & DYE CORP, 357 W Erie st† Superior 8387
National Biochemical Co, 3106 W Lake st
NATIONAL CASEIN SALES, 601-619 W 80th st Vincennes 6-7200
National Chem & Mfg Co, 3608 S May st
National Cylinder Gas Co, 840 N Michigan av
National Lacquer & Paint Co, Inc, 7419 S Green st
National Oxygen Co, 205 W LaSalle st
National Wax Co, 1300 W Division st
Neuman, Buslee & Wolfe, 224 W Huron st
Newman Tallow & Soap Machinery Co, 1051-59 W 35th st
NEWPORT INDUSTRIES INC, 2001 W Pershing rd† Central 6-9059
NEW YORK QUININE & CHEM WKS INC, 729 W Division st† Delaware 7-4779
New Wrinkle Inc, 105 W Adams st
NINOL LABORATORIES, 1719 S Clinton Chesapeake 3-9625
NOPCO CHEMICAL CO, 3625 Jasper pl†
Norman-Willets Co, 816 W Washington st
North Shore Coke & Chem Co, 231 So LaSalle st

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125 W. Hubbard St., Chicago 10, Ill.

Chicago, Ill. (cont'd)

Northwestern Pine Tar Co, 2770 N Wolcott av
Nubian Paint & Varnish Co, 1856 N Leclaire av
Nu Steel Co, 1714 S Ashland av
Nuodex Products Co, Inc, 600 S Michigan av
O'Brien Varnish Co, 1811 S Wabash av
PACIFIC COAST BORAX CO, 2295 Lumber st† Canal 6620
PAISLEY PRODUCTS, INC, 1770 Canalport av† Canal 6-2219
Paul & Co, J C, 925 Roscoe st
PENICK & CO, S B, 735 W Division st† Mohawk 5451
PENNSYLVANIA SALT MFG CO, 20 N Wacker dr†
Permalawn Products Co, 2222 Green Bay rd
Perolin Co of New York, 551 5th av
PETERS CHEM MFG CO, 626 W Jackson Blvd† Seeley 4548
PFIZER & CO, INC, CHARLES, 444 W Grand av† Superior 9080
PHENIX PABST-ETT CO, 460 E Illinois st
PHILA QUARTZ CO, 205 W Wacker Dr† State 7734
Phillips & Martin Co, 8524 N Wolcott av
Pioneer Asphalt Co, Tribune Tower Bldg
PITTSBURGH PLATE GLASS CO, Columbia Chemical Div, 1721 Tribune Tower Bldg† Superior 0423
Plibrico Jointless Firebrick Co, 1840 Kingsbury st
PORTZ, FRED, 333 N Michigan av† State 7053
Proctor & Johnson, Inc, 520 N Michigan av
PUBLICKER INDUSTRIES, INC, 105 W Madison st† State 1005
Pure Oil Co, 35 E Wacker dr
Purity Soap & Chem, 100 Humboldt av
Pyroxylin Products, Inc, 4851 S St Louis av
Quaker Oats Co, Merchandise Mart
R-S Laboratories, 711 S Dearborn st
Rainbow Color Co, 222 N Bank dr
Rainbow Ink Co, 932 W Huron st
Rain-On Mfg Corp, 3602 W Madison st
Rapid Electroplating Process, Inc, 1414 S Wabash av
Raven Mining Co of Utah, 140 S Dearborn st
Ready Solvents Corp, 4741 W Lake st
REICHHOLD CHEMICALS, INC, 122 S Michigan av† Harrison 2630
REILLY TAR & CHEM CORP, 2513 S Damen av† Canal 5400
Reliable Brokerage Co, 160 E Illinois st
Reliance Varnish Co, 4501 Haddon av
Reliance Ink Products Co, 2022 S Ogden av
RESEARCH CORP, 122 So Michigan av†
RESINOUS PRODS & CHEM CO, 900 N Halsted st† Mohawk 3334
Riddleford Bros Inc, 308 W Randolph st
Robertson Prods Co, Inc, Theo B, 700 W Division st
Rockwell Lime Co, 228 N LaSalle st
Roesling, Monroe & Co, 327 S LaSalle st
ROHM & HAAS CO, 222 N Michigan av†
Root Co, A I, 224-230 W Huron st
ROSS & ROWE, INC†
Rubber, S S Cement Co, 314 N Michigan av
Ruberoid Co, The, 5333 South Western av
Rust-Pruf Co, The, 164 W Lake st
Ryerson & Son Co, Inc, Jos T, 2558 W 16 st
S S Rubber Cement Co, 314 N Michigan av
Sandoval Zinc Co, 3752 So California av
Sanford Ink Co, 846 W Congress st
Sargent & Co, E H, 155 E Superior st
Schaar & Co, 754 W Lexington st
Schmidt Co, Geo A, 236 W North av
Schmidt Soap Products Inc, 236 W North av
Schutte Co, W H, 325 W Huron st
Scientific Lubricants Co, 2469 N Clark st
Scientific Oil Compdg Co Inc, 1637 S Kilbourn av
Sealkote Corp, 507 W Monroe st
Self-Vulcanizing Rubber Co, 605 W Washington blvd
Shaffer Laboratories, 440 S Dearborn st
SHARPLES CHEMICALS INC, 80 E Jackson Blvd† Harrison 1345
Shaving & Sawdust Co, 2244 S Western av
SHELL CHEM CORP, 624 S Michigan Blvd† Harrison 7-3080
SHERWIN-WILLIAMS CO, Pigment Color & Chem Div, 300 W Lake st Financial 6-0500
Simonin Co, The, 2100 S Indiana av
SINDAR CORP, 605 W Washington Blvd† Franklin 4858
Skelly Oil Co, 4814 S Richmond st
Solar Products Co, 2301 S Millard av
Soldine Corp, 3911 N Western av
Soline Chemical Co, 2845 N Talman ave
SOLVAY SALES CORP, 1 No LaSalle st† Randolph 3970

Chicago, Ill. (cont'd)

SONNEBORN SONS, INC, L, 400 W Madison st† Franklin 7973
Southern Illinois Mfg Co, 332 S LaSalle st
Speedite Chemical Products, Inc, 5348 B'way
Standard Asbestos Mfg Co, 860 W Evergreen av
STANDARD CHEMICAL CO, Mid West 3724 W Lawrence av
Standard Paste & Glue Co Inc, 3620 W 38 st
Standard Peroxide Co, 15th st at Kolin av
Standard Silica Corp, Rookery bldg
Stange Co, Wm J, 342 N Western
Star Chemical Co, 45 W Cermak rd
Star Fluid Co, 1915 W Van Buren st
Starkie Co, The, 5461 W Division st
STAUFFER CHEMICAL COMPANY, 221 N LaSalle st Randolph 8955
Stein & Co, Leo G, W Huron st
STEIN, HALL & CO INC, 25 Jackson Blvd†
Stepan Chem Co, 1858 North Branch st
Sterling Borax Co, 526 W 18 st
Stirne & Maley Co, 1101 W 50 st
STERWIN CHEMICALS INC, 445 Lake Shore dr† Superior 8561
Stille-Young Corp, The, 2752 N Clybourn av
STRESEN-REUTER, INC, FRED'K A, 2113 W Medill av Humbolt 1552
Stuart Industrial Service, Inc, 4603 W Roosevelt rd
Sullivan Co, Charles J, 123 So Jefferson st
Sullivan Oil Co, 1269 W North av
SUNNYSIDE OIL CO, 2212 W Sunnyside av Longbeach 1-2146
Sunshine Chem Co, Inc, John, 604 W Lake st
Superior Copper Products Co, 5818 S Throop st
Superior Flake Graphite Co, 23 S Clark st
Superior Oil & Supply Co, 1748 Wilmot av
Supreme Paint & Varnish Wks, 2320 N Seeley av
Surety Mfg Co, 516 N Wells st
Swift & Co, Union Stock Yds
Tamms Silica Co, 228 N LaSalle st
Tanade Co, The, 2136 Dominick st
Tannerize Co, 2557 S Avers av
Technical Finishes Corp, 4851 St Louis av
Tenn-Illinois Phosphate Co, 332 S LaSalle st
Texto Prods Corp, 4750 Sheridan rd
Thermo-O-Proof Insulation Co, 9 S Clinton st
Thomas Industrial Laboratories, 1043 Wolfrom st
THOMPSON-HAYWARD CHEM CO, 121 W Pershing rd† Atlantic 5-8807
Timesaver Prods Co, 646 W Washington Blvd
Tominson Paint & Varnish Co, 1114 N Kilborn av
Trask Company, Arthur C, 4103 So LaSalle st
Trojan Products & Mfg Co, 3130 S Wabash av
TURNER & CO, JOSEPH, 3958 Calumet av† Kenwood 3131
UNITED CARBON CO INC, Field Bldg† Central 1353-4
United Chem & Org Products, Div of Wilson & Co, Inc, 4100 S Ashland av
U S GUTTA PERCHA PAINT CO, 417 W Ohio st†
U S GYPSUM CO, Industrial Div, 300 W Adams st State 2-6100
U S Sanitary Specialties Corp, 1001 S California av
U S INDUSTRIAL CHEMICALS, INC, 624 S Michigan av† Wabash 1680
U S STEEL CORP SUBS, 208 S LaSalle st†
Universal Insulation Co, 2601 W 107 st
Universal Textile Labs, 111 W Austin av
Universal Zonolite Insulation Co, 135 S La Salle st
UTILITY COLOR CO, 228 N La Salle st† Central 0409
Van Allen Co, L R, P O Box 3610, Merchandise Mart Sta
VAN AMERINGEN-HAEBLER INC, 211 W Wacker dr†
Van Camp Oil Prods Co, 2670 Elston av
Van Cleef Bros, 7800 South Woodlawn av
Van Straaten Chem Co, 546 W Washington st
Van Schaack Chem Wks, Inc, 8430 Henderson st
Vavra-Frey Ink Co, 812 N Laflin st
VELSICOL CORP, 330 E Grand av Delaware 7-7283
VICTOR CHEMICAL WORKS, 141 W Jackson blvd Harrison 7-3541
Victor Mfg & Gasket Co, 5760 Roosevelt rd
Viscosity Oil Co, 3820 W Pershing rd
VITAMINS INC, 809 W 50 st Normal 2727
Washburn Co, T F, 2244 Elston av
Waukegan Industrial Finishing Co, 2819 W Lake st
Weatherproof Mfg Co, 4334 N Western av
Weber & Co, Edgar A, 825 W Huron st
Wedron Silica Company, 28 So Dearborn st
Wehenn Abrasive Co, 811 W Jackson Blvd
Wellington Sears Co, 222 West Adams st
Western Chalk Co, 730 Harrison st
Western Dry Color Co, 600 W 52nd st
WESTVACO CHEM DIV, FOOD MACHRY & CHEM CORP, 161 W Jackson blvd† Wabash 2-7554
Wiley Alloy Tube Co, 11 S LaSalle st
WILL & BAUMER CANDLE CO, INC, 162 N Franklin st† Franklin 2916
Willets Co, Norman, 316 W Washington st
Williamson Adhesives, Inc, 2367 W 18th st
Wilson Co, Central Chem Div, 4100 S Ashland av
Wilson & Co, U S Yards
Wilson Labs, Div of Wilson Co, 4221 S Western av
WITCO CHEM CO, 75 E Wacker dr† Financial 6-2900
Wolf Chem & Color Sup, 5121 W Chicago av
Wonder Wash & Bleach Wks, 1351 W Grand st
Wood Chemical Prods Co, 25 E Jackson blvd
Woods, Frank Z, 1036 W Van Buren st
Wright Co, Chester H, 2243 Lister av
Wrisley Dist Co, Allen B, 6901 W 65th st
WYANDOTTE CHEMICALS CORP, Michigan Alkali Div, 435 N Michigan av† Superior 8866
WYODAK CHEM CO, 3536 S Morgan av†
Zenith Chem Wks, 5526 W Lake st
ZOPHAR MILLS, INC, 21 E Van Buren st†
Zoro Co, The, 216 N Clinton st

Illinois (cont'd)

Tile-Tex Co, The Chicago Heights
ALKYDOL LABS, INC, 3242 S 50 av, Cicero Bishop 2-1374
Becker Bros Carbon Co, 3450 S 52nd av Cicero
Boston Laboratories, 4635 W Roosevelt av Cicero
Certified Core Oil, Div of Socony Vacuum Co Inc, 3308 S Cicero av Cicero
ADVANCE SOLVENTS & CHEM CORP, Lake Front st E 9 st, Cleveland† Cherry 5280
Hegeler Zinc Co, Danville
ARCHER-DANIELS-MIDLAND CO, Decatur† 3131
Schellabarger Grain Prods Co, 1900 N Samuels Decatur
STALEY MFG CO, A E, Decatur 4141
Aluminum Ore Co, 3300 Missouri st East St Louis
AMER AGRIC CHEM CO, Box K, National Stock Yards† East St Louis Bridge 7100
Amer Zinc Co of Ill, Box 495 East St Louis
CONTINENTAL CAN CO, Box 12431 St Louis, Mo Bridge 3530
E St Louis Rend Co, Natl Stock Yards East St Louis
Evans-Wallower Zinc Co, Monsanto P O East St Louis
Hammar Bros White Lead Co, 305 St Clair East St Louis
Hill-Thomas Lime & Cement Co, 2100 St Louis East St Louis
Inter Coastal Paint Corp, 13th and Southern Ry East St Louis
Key Co, McCasland av East St Louis
Mepham Corp, Geo S, 20th & Lynch av East St Louis
VIRGINIA-CAROLINA CHEM CORP, Box 191, East St Louis† Bridge 7070
Williams & Co, C K, 2001 Lynch av East St Louis
Elgin Softener Corp, 134 N Grove av Elgin
Coldwell Seed Co, 1502 Sherman av Evanston
Acme Resin Corp, 1401 S Circle av Forest Park
U S Mica Mfg Co, 1621 Circle av Forest Park
U S Silica Mfg Co Forest Park
Burgess Cellulose Co Freeport
REILLY TAR & CHEM CORP, Granite City† Illinois 4-200
St Louis Gas & Coke Corp Granite City
Grayslake Gelatin Co Grayslake
Dadant & Sons Hamilton
RIVERDALE CHEM CO, 324 E 147 st, Harvey Riverdale 1880
BLOCKSON CHEMICAL CO, Patterson rd, Joliet Joliet 3-6601
Illinois Clay Prods Co, 214 Barber Bldg Joliet
Joliet Chems, Ltd, 104 Industry av Joliet
Superior Chem Co Joliet
Chicago Wood By-Prod, Inc, 417 S Kensington La Grange
CARUS CHEMICAL CO, INC, Union & 6th sts, La Salle La Salle 1500
Matthiessen & Hegeler Zinc Co, 9th st La Salle
Anderson Corp, 6560 Lincoln av Lincolnwood
Lewis Tar Prods Co, P O Box A Lyons
Sibbach & Co, Wm G, 201 S 2nd av Maywood
PETERS CHEM MFG CO, 3623 Lake st, Melrose Park Melrose Park 643
Richardson Co, 2777 Lake st Melrose Park
Chicago Ink & Research, 300 W Northwest H'way Mt Prospect
ATLAS POWDER CO, Industrial Finishes Dep't, N Chicago† N Chicago 3803
Fansteel Metallurgical Corp, 2200 Sheridan rd North Chicago
Avondale Co, The, 260 Happ rd Northfield
National Silica Co Oregon
Ottawa Silica Co, Box 437 Ottawa
Central Ill Labs, Inc, 200-10 Cornhill st Peoria
Faber & Co, Union Stockyards Peoria
McKESSON & ROBBINS, INC, 812 S Washington st, Peoria† 4-7101
Nitrose Co, Inc, The Peoria
Peoria Rend Co, Ft of Sanger Peoria
Stock Yards Rend Co, Union Stock Yards Peoria
Agkem, Inc, 506 Main st Quincy
Black White Lime Co, Front & 8th sts Quincy
EDWAL LABORATORIES, INC, Ringwood Richmond 5-5919
Monroe Chem Co Quincy
General Cement Mfg Co, 919 Taylor av Rockford
Libby Oil & Chem Co, 1140 Harrison av Rockford
Midwest Extraction Co, P O Box 799 Rockford
Rockford Paint Mfg Co, 201 N Madison st Rockford
Smith Oil & Refining Co, 1102 Kilburn av Rockford
DU PONT CO, Explosives Dept, Reisch Bldg† Springfield
Whitlock Co, C G, 315 N 1 st Springfield
Midland Indus Finishes Co, E Water st Waukegan
Pfanstiehl Chemical Co, 104 Lakeview av Waukegan
LINDSAY LIGHT & CHEMICAL CO, West Chicago West Chicago 760
Hizone Products, 1211 Washington st Wilmette
Leehner, Carl A, Box 174 Wilmette

INDIANA

Indiana Limestone Corp Bedford
Cantol Wax Co, 211 N Washington st, Bloomington
Central Soyan Co, 1200 N Second st Decatur
International Smelt & Ref Co East Chicago
U S Lead Refinery East Chicago
U S Reduction Co, Melville av East Chicago
Pioneer Laboratory & Mfg Corp, 315 W Franklin st Elkhart
Johnson Laboratories, 514 S Anderson st Elwood
American Soya Prods Corp, 209 S Jos av Evansville
City Rend Plant, 1st av Evansville
Koch Chem Co, 616 NW Riverside dr Evansville
Leich & Co, Charles, 420 N W 5 st Evansville
Standard Industrial Prods, Inc, 1500 Park av Evansville
Tri-State Asbestos & Magnesite Co, 109-11 N Fulton av Evansville
Anti-Borax Compound Co, 1506 Wall st Ft Wayne
Central Soya Co, Inc, Ft Wayne Nat'l Bank Bldg Ft Wayne
Johns-Manville Sales Corp, 824 S Harrison st† Ft Wayne
Miracle Mfg Corp, 129 E Columbia st Ft Wayne
Sanders Color & Chem Co Frankfort
Union Glue & Paste Works Franklin

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Indiana (cont'd)

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American Zinc Prods Co	Greencastle
Hammond Lead Prods Co, 1st Trust Bldg	Hammond
Metals Refining Co, Box 309	Hammond
Eagle Soap Corp	Huntington
Huntington Labs, Tipton st	Huntington

INDIANAPOLIS

Advance Paint Co, 601 Kentucky av	
American Cellulose Co, Pendleton Pike	
ANSUL CHEMICAL CO, 906 Inland Bank Bldg†	Market 3192
BARRETT DIV, ALLIED CHEM & DYE CORP, P O Box 1327† (Beechgrove)	Garfield 2076
CARBIDE & CARBON CHEMICALS DIV, Union Carbide & Carbon Corp 729 N Pennsylvania st†	Riley 3577
CAREY, THE PHILIP MFG CO, 1111 E 19 st†	Wabash 3388
Char Prods, 1617 Merchants Bank Bldg	
Chemical Novelties Corp, 1921 Prospect st	
Cinelin Co, 1036 S White River Pkwy	
Clark Chemical & Supply Co, Inc, 1527 Miller st	
Evans Milling Co, 1730 W Michigan st	
Holcomb Mfg Co, J L Barth & Palmer sts	
HOOSIER SOLVENTS & CHEMS CORP, 1650 Luett st	Atlantic 1361
Indiana Naval Stores Co, 408 W 17th st	
Indiana Oxygene Co, 435 So Delaware	
Indianapolis Soap Co, 551 S Illinois st	
Industrial Solvents Inc, 421 Board of Trade Bldg	
JOHNS-MANVILLE SALES CORP, Merchants Bank Bldg†	Imperial 6416
Kneffer-Bates Co, 1730 W Michigan st	

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Perfection Paint & Color Co, 715 E Maryland st	
Piel Brothers Starch Co, 1515 S Drover	
Pioneer Lab & Mfg Corp., 815 W Franklin st	
REILLY TAR & CHEM CORP, 1615 Merchants Bank Bldg	Market 9461
Sereinsky Co, Moses, P O Box-506	
SOLVAY SALES CORP, 709 Guaranty Bldg†	Lincoln 8223
Success Plastics Recovery Wks, Kentucky av & Drover st	Indianapolis, Ind
Ulrich Chemical Co, 31 E Georgia st	
Wall Chemicals, Inc, 4 N Liberty st	

Pfau's Sons Co, Geo	Jeffersonville
Clark's Laundry & Dry Cleaning Co	Mishawaka
Mitchell Lime Co	Mitchell
Steel Protection & Chem Co, Inc	Mooresville
Birk, Glover M, Monon & Lincoln avs	New Albany
Conrad-Kammerer Glue Co, Silver st	New Albany
THE DAVISON CHEM CORP, Hopkins Fertilizer Div, W 10th & River sts†	New Albany 2660
Hoosier Lime Co, P O Box 492	Salem
INLAND ALKALOID CO, THE, Tipton	Tipton 73
JOHNS-MANVILLE SALES CORP, 110 E Madison st, South Bend†	South Bend 3-6260
O'Brien Corp, The	South Bend
Mid-West Chemical Co, Inc, 811 Lafayette av	Terre Haute
Parker Paint & Varnish Mfg Corp	Valparaiso

IOWA

Bonewitz Chems Inc, P O Box 560	Burlington
McKESSON & ROBBINS, INC, 100 N 4 st, Burlington†	410
Witte & Sons, John H	Burlington
Cedar Rapids Sanitary Rend Co, Otis rd & Christie SE	Cedar Rapids
McKESSON & ROBBINS, INC, 900 2 st, S E, Cedar Rapids†	4191
Security Laboratories, 730 Merchants Nat'l Bk Bldg	Cedar Rapids
Iowa Soda Products Co, P O Box 476	Council Bluffs
Sluyter Chem Co, 313½ E 2nd st	Davenport
THOMPSON-HAYWARD CHEM CO, 1747 W 1 st†	Davenport 2-0115
ANSUL CHEMICAL CO, 635 46 st†	Des Moines 5-6516
DIAMOND ALKALI SALES CORP, % Merchants Transfer & Storage Co, 824 Mulberry st†	Des Moines
Hermetik Products Co, 1211 Grand av	Des Moines
MERCHANTS CHEMICAL CO, INC, 2425 Kenway dr, Des Moines†	5-8372
Super-Solder Co, 821 3rd st	Des Moines
THOMPSON-HAYWARD CHEM CO, S W 1 & Granger†	Des Moines 3-5151
Tuferete Co, Inc, 525 Teachout Bldg	Des Moines
Farley & Loetscher Mfg Co, 7 & White sts	Dubuque
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Stephenson Chem Company, 314 S Carolina av	Mason City
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Soo Feed & Chem Co, 3rd & Plymouth sts	Sioux City
Overton Chemical Co	Sumner
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Waterloo Rend Wks, 84 Dunham pl	Waterloo

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Petroleum Prods Co	Chanute 171
ARCHER-DANIELS-MIDLAND CO, Fredonia†	Fredonia
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Barton Salt Co	Hutchinson
Carey Salt Co, The Carey Bldg	Hutchinson
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ATLAS MINERAL PROD CO, THE	Kansas City
Curtis-Folse Labs, 70 Central st	Kansas City
COLGATE-PALMOLIVE-PEET CO, Packers Station,† Kansas City	Drexel 3100
U S INDUSTRIAL CHEMICALS, INC, 507-517 No Montgall av, Kansas City†	Victor 3427
Davidson Pumice Co	Norton
ATLAS POWDER CO, Globe Bldg, Pittsburgh†	Bell 661
UNITED CARBON CO, INC, P O Box 243, Savata†	
Hess Co, J R, 128 Polk st	Topeka
Topeka Rend Co, Ft of Jefferson	Topeka
THOMPSON-HAYWARD CHEM CO, 727 E Osie st†	Wichita 5-9606
American Salt Corp, 2400 No Bway	Wichita
Derby Oil & Refining Corp, 358 No Broadway	Wichita
DIAMOND ALKALI COMPANY, 306 W 2 st, Wichita†	4-8301
DU PONT CO, Electrochemicals Dept, 223 S Wichita st†	Wichita
McKESSON & ROBBINS, INC, 117 N Santa Fe av, Wichita†	2-4313

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Ashland Oil & Refining Co, 1409 Winchester av	Ashland
Amer Chem Co, Grandview & Lafayette av	Bellevue
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CAREY, THE PHILIP MFG CO, 1032 S 8 st†	Jackson 3282
COMMERCIAL SOLVENTS CORP, 3 & Main st†	Wabash 7015
Federal Chem Co, 634 Starks Bldg	
Gans Chem & Sup Co, 209 W Main st	
JOHNS-MANVILLE SALES CORP, Louisville Trust Bldg†	Wabash 6931
Jones-Dabney Co	
KENTUCKY COLOR & CHEMICAL CO INC, 600 N 34 st	Shawnee 1296
McCann Chemical Co, 712 W Jefferson st	
MERCHANTS CHEMICAL CO INC, 1301 W Jefferson st†	Jackson 0671
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New Louisville Rendering Co, Upper River rd	
Oxygen-Hydrogen Co, Box 840	
Reynolds Metals Co, 2500 S 3 st	
Standard Oil Co of Ky, 430 W Bloom st	
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Stoll Oil Refining Co, 227 W Main	
Superior Chemical Works, 2538 Garland av	
Tabler, Wm B, 223 Heyburn Bldg	
Tobacco By-Products & Chem Corp, Columbia Bldg	
U S INDUSTRIAL CHEMICALS, INC, Box 455, 1373 Lexington rd†	Jackson 0963

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Kentucky Clay Mining Co	Mayfield
ATLAS POWDER CO, Gloucester av at 31 st, Middlesboro†	Middlesboro 823
Spinks Clay Co, H C, 502 Monmouth st	Newport
Old Hickory Clay Co, Forrest Circle	Paducah
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Producers Turp Co — Elizabeth
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Texas-Louisiana Prod & Carbon Co, P O Box 181 — Monroe
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Bay Chemical Company, 1048 Constance st
Chemical Prods Mfg Co, 8131 Oleander st
COLGATE-PALMOLIVE-PEET CO, 837 Gravier st† — Canal 3179
COMMERCIAL SOLVENTS CORP, 305 Barronne st† — Canal 6117
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Dicalite Co, The, 733 Canal Bldg
DU PONT CO, Electrochemicals Dept, Maple & Leak ave†
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Enochs Sales Co, 805 Howard av
FREEPORT SULPHUR CO, 1804 Amer Bk Bldg† — Raymond 7191
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Jefferson Lake Oil Co, 1408 Whitney Bldg
Jefferson Lake Sulphur Co, Whitney bldg
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MATHIESON CHEM CORP, 344 Camp st† — Magnolia 5793
Myles Salt Co, Ltd, 1048 Constance st
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Standard Trading Co, 215 St Charles st
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U S INDUSTRIAL CHEMICALS, INC, Broadway & Coliseum st† — Walnut 6195
Woodward Wight & Co, Ltd, 451 Howard av

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Louisiana Pine Prods Co — Shreveport
Merchant's Cotton Oil Co, Market — Shreveport
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Portland Rend Co — Portland
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AMERICAN AGRICULTURAL CHEM CO, Searsport† — Searsport 52

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Eastern Tar Prods Corp, Standard Oil Bldg
Feimor Chem Works, 1210 N Fulton av
Fluid Bros Inc, 702 S Wolfe st
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New England Aniline Works — Ashland

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BOSTON

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BARRETT DIV, ALLIED CHEM & DYE CORP, 378 Commercial st, (Malden) † Malden 7460
Beacon Co, The, 97 Bickford st
Beacon Color & Chem Co, 51 India st
Beacon Smelting Co, 143 Federal st
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CAREY MFG CO, THE PHILIP, 267 Medford st, Charlestown District† Charlestown 1725
CELANESE CORP OF AMER, 140 Federal st† Hancock 6-6289
CIBA CO INC, 95 South st† Hancock 4836
Claflin, Alan A, 88 Broad st
COLGATE-PALMOLIVE-PEET CO, 25 Huntington av† **Kenmore 9739**
Colonial Beacon Oil Co, 378 Stuart st
Columbia Leather Finish Co, 370 Atlantic av
COMMERCIAL SOLVENTS CORP, 50 Terminal st, Charlestown† **Charlestown 1140**
COMPO CHEMICAL CO INC, 152 Causeway st **Capitol 7-3650**
Connor & Co Inc, Chas F, 110 State st
Consolidated Rendering Co, 178 Atlantic av
Continental Soap Co, 18 Bartlett sq
Craftex Co, 40 Central st
Crane Co, L M, 111 Purchase st
Crystal Springs Paste Co, 419 Boylston st
Curry Oil Co, M L, 22 Oliver st
Curtis Mfg & Asbestos Co, 20 Lewis Wharf
Dadmun, C S, 51 Ellery st
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DUCHE, T M & SONS, INC, 177 State st† **Hubbard 8316**
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DU PONT CO, Film Dept, 619 Peachtree st, N E†
DU PONT CO, E I, GRASSELLI CHEM, 140 Federal st† **Hancock 2783**
DU PONT CO, Krebs Pig Div, 7 Charlton st† **Hancock 6640**
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DU PONT CO, Photo Prods Dept, 140 Federal st†
DU PONT CO, Pigments Dept, 359 Washington st†
DU PONT CO, Polychemicals Dept, 140 Federal st†
Durfee Co, Inc, W C, 114 Federal st
Dyestuffs Corp of America, 281 Franklin st

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Eastern Smelting & Ref Co, 109 W Brookline st
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Esselen, Inc, Gustavus J, 857 Boylston st
Fay-Cole & Co Inc, 71 India st
Ferdinand & Co, L W, 599 Albany av
Flexoid Products Co, Inc, 170 Summer st
FRITZSCHE BROTHERS, INC, Statler bldg Hancock 6-6660
GEIGY COMPANY, INC., 88 Broad st† Hancock 0565
GENERAL DYESTUFF CORP, 255 Atlantic av† **Hancock 4550**
George Chem Co, 636 Dorchester av
GIVAUDAN-DELAWANNA INC, 140 Federal st† Liberty 2-4757
Hartford Chemical Co, 428 Commercial st
HARWICK STANDARD CHEM CO, Chamber of Commerce Bldg† **Hancock 6-0380**
Heap & Son, F J, 65 High st
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Hood & Son, H P, 500 Rutherford av
Houghton Inc, Philip A, 80 Huntington av
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Hub Dyestuff & Chemical Co, 536 E 1st st
HUBER SALES ENGR, R B, 216 Tremont st Hubbard 2-1454
Industrial Products Co, 146 Summer st
INNIS SPEIDEN & CO, INC, 41 Commercial Wharf† Capitol 3778
JOHNS-MANVILLE SALES CORP, 49 Federal st† Liberty 2-0210
Johnson, H A Co, 221 State st
Kay-Cee Asphalt Prods Co, 368 Congress st
Kehew Bradley Co, 43 Purchase st
KESSLER CHEM CO, INC, 30 Pittsburgh st† Liberty 4576
Kimball Co, C M, 131 State st
Kolb Chemical Co, 102 Arlington st
KOPPERS CO INC, CHEM DIV, 250 Stuart st† Liberty 6535
Leeds & Northrup Co, 31 St James av
Lewis Chem Co Inc, 110 Broad st
MAGNUS-MABEE & REYNARD, INC, 99 Chauncy st† Liberty 6820
MANN & CO, INC, GEO, 250 Stuart st† Hubbard 0661
Marstin Adhesive Co, 57 Bristol st
Master Chemical Co, 27 Hilton st
Masury-Young Co, 76 Roland Chase
Maxwell Chem Co, 110 Broad st
McClellan & Co, G C, 141 Milk st
McKESSON & ROBBINS, INC, 385 Summer st† Hubbard 2-2600
Melville Color Co, 93 High st
METASAP CHEM CO, 10 High st Hubbard 1202
Milford Stain & Blacking Co, 72 E Dedham st
Miller, Franklin C, 18 W 39 st
MONSANTO CHEM CO, Merrimac Div, Everett Sta Everett 7-5010
MONSANTO CHEM CO, 140 Federal st† Liberty 6440

Boston, Mass. (cont'd)

Montgomery & Co, Inc, W L, 89 Beach st
Morton, M S, 170 Summer st
Mulcahy & Griffin, 141 Milk st
NATIONAL ANILINE DIV, ALLIED CHEM & DYE CORP, 150 Causeway st† Capitol 0490
National Research Corp
National Waterproofing Co, 1079 Columbus av
NEALCO-MONSANTO CO Everett 7-5018
Newbert Color Co, 88 Broad st
NEW ENGLAND ALCOHOL CO, 82 Devonshire st
New England Blacking Co, 24 Bickford st
New England Chem & Paint Co, 10 High st
New England Coal & Coke Co, 250 Stuart st
New England Soap Co, 191 Columbia st Hubbard 1302
NOPCO CHEM CO, 10 High st†
Old Glory Chemical Co, 428 Commercial st
Package Chemical Co, 40 Water st
PAISLEY PRODS INC, 79 Milk st† Hubbard 2-2175
PHILIPP BROTHERS CHEMICALS INC, 176 Federal st† Liberty 8815
Pingo Co, 79 Sudbury st
PITTSBURGH PLATE GLASS CO, Columbia Chem Div, Little Bldg†
Plastic Products Co, Inc, 41 Lynde st
Poole & Co, J R, 148 State st
RESINOUS PRODS & CHEM CO, 62 Alford st† Charlestown 1180
Roberts Co, 36 Lincoln st
Robie, Milton F, 50 Pittsburgh st
Robiyn Oil Co, 80 Freeport st
ROHM & HAAS CO, Statler Office bldg†
Rosentwist & Gorner, 26 India sq
Russ Co, E F, 287 Atlantic av
Rust Master Co, 712 Beacon st
S & F Blacking Co, 70 Beverly st
Sagamore Color & Chemical Co, 178 Purchase st
Schmaltz Mfg Co, Alfred, 34 Lewis Wharf
Shawmut Specialty Co, 91 Bickford st
Sheldon Co, Albert K, 214 6 st
SHELL CHEMICAL CORP, 441 Stuart st† Kenmore 6-1400
SHERWIN-WILLIAMS CO, (P C & C Div), 655 Beacon st†
SINDAR CORP, 140 Federal st† Liberty 2-4757
Smith Color Co, Jos R, 195 High st
SMITH CO, WERNER G, Div Archer-Daniels-Midland, 141 Milk st† Liberty 9164
SOBIN CO, INC, IRVING M, 74 Granite st South Boston 3973
SOLVAY SALES CORP, 45 Milk st† Hancock 2160
SONNEBORN SONS, INC, 655 Beacon st† Kenmore 4161
Special Prods Co, 261 Franklin st
STANLEY DOGGETT, INC, 185 Devonshire st† Hancock 3610
STEIN, HALL & CO INC, 80 Federal st†
STERWIN CHEMICALS INC, 4441 Stuart st† Kenmore 6-4153
Stickney Tirrell & Co, 10 Milk st
Sulpho-Naphthol Co, The, 24 Sudbury st
Tileston Chem Spec Co, 92 Tileston st
Union Color & Chem Co, 200 Congress st
United Aniline Co, 156 Pearl st
UNITED CARBON CO, INC, 43 Leon st† Highlands 1664
United Indigo & Chem Co, 176 Federal st
Universal Chem Co, 80 Huntington av
Universal Refining Prods Co, Inc, 10 High st
U S Dyestuff Corp, 76 Battery March st
U S GUTTA PERCHA PAINT CO, 419 Commonwealth av†
U S INDUSTRIAL CHEMICALS, INC, 131 Beverley st† Capitol 8140
U S Smelting Refg & Mining Co, 75 Federal st
Victoria Mills, 9 Melcher st
VIRGINIA SMELTING CO, 131 State st† Hubert 5635
Voter Co, G H, 810 Congress st
Warren Soap Mfg Co, 51 Waverly st
Watson-Park Co, 261 Franklin st
Webster Cement Co, 222 Thorndike st
Weller Chemical Co, 141 Milk st
Whittemore, Inc, L G, 131 Beverly st
Whittemore-Wright Co, Inc, 62 Alford
Wilbur & Williams Co, Greenleaf & Leon sts
WILL & BAUMER CANDLE CO, INC, 71 Broad st† Hancock 1897
Wilson & Sons, Inc, N S, 150 Causeway st
WITCO CHEM CO, 141 Milk st† Liberty 2-2139
Wood Co, W A, 45 Purchase st
Woodall Corbett Co, 261 Franklin st
Woodley Supply Co, 33 Norfolk av

HALL CO, C P THE, 720 Washington st, Brighton† Stadium 6711
New England Rendering Co, Abattoir Grounds Brighton
K & H Blacking Co, 79 Fuller st Brocktor

CAMBRIDGE

Angier Prods, Inc, 120 Potter st
Aquabar Waterproofing Products Inc, 238 Main st
ARCHER-DANIELS-MIDLAND CO, 236 5 st† Kirkland 7-9081
B B Chemical Co
Barclay Chem Co, Inc, 89 Broadway
Deezy Prods Co, 120 Potter st
Dewey & Almy Chem Co, 62 Whittemore av
Disinfectant Co, Inc, 42-44 Carleton st

Cambridge, Mass. (cont'd

Egleston Co, Wm D, 249 5th st
Flash Chemical Co, 160 2 st
General Latex & Chem Corp, 666 Main st
HUNT CO, PHILIP A, 111 Binney st† Trowbridge 6-7050
Lever Bros Co
Mico Instrument Co, 80 Trowbridge st
Morton, M S, 473 Broadway
New England Blacking Co, Inc, 491 Main st
Nicholson & Co, 161 First st
North American Chem Co, 19 Chestnut st
Northeastern Co, 238 Main st
Robbins Disinfectant Co, Inc, G B, 42-44 Carleton st
Schmals, Mfg Co, Alfred, 200 First st
Sheldon Co, Albert K, 137-145 Main st
SMITH CO, THE WERNER G, (Div of Archer-Daniels-Midland Co) 265 Fifth st† Kirtland 0038
Sulpho-Napthol Co, 24 Sudbury st
Thompson, Weinman & Co, Inc, 11 Windsor st
Union-Bay State Chem Co, Inc, 50 Harvard st
Vultex Chem Co, 666 Main st
Webster Cement Co, W F, 224 Thorndike st

Avite Prods, Inc, 68 Alford st Charlestown
COMMERCIAL SOLVENTS CORP, 50 Terminal st, Charlestown† Charlestown 1140
Whiting Milk Co, 370 Rutherford av Charlestown
Commonwealth Oil Co, 202 Williams st Chelsea
Raffi & Swanson, Inc, 311 Eastern av Chelsea
West Co, 132 Liberty st Chelsea
Hamilton Emery & Corundum Co Chester
Metal Hydrides Inc, Box 816 Clifton
Texol Chemical Works, Hamilton sq Clinton
Crystal Color & Chem Wks Cordaville
Anchor Color Wks, Main st Dighton
New England Whiting Co, 288 Border st E Boston
Plymouth Co, 408 Meridian st, East Boston
Wesco Waterpaints, Inc, 2 Lexington st E Boston
Briggs Mardney Co, Inc, 55 Paris st, Everett Everett
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Eastern Chemical Co, 210 Bway Everett
HOWE & FRENCH MFG DEPT, E Weymouth† Weymouth 0091
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Everett Chemical Co, 210 Bway	Everett
Koppers Co, Beacham st	Everett
Larkin Specialty Co, 11a Pearl st	Everett
NEW ENGLAND ALCOHOL CO,	Everett
West Paint & Varnish Co, 1760 Parkway	Everett
White & Hodges, 2 Wellington av	Everett
Butchers Rendering Co, 96 Birch st	Fall River
Solshine Mfg Co, 423 Second st	Fall River
Bersworth Chemical Co, Waverly st	Framingham
Independent Coal Tar Co	Framingham
Domestic Dyes Associates, Inc	Franklin
Rogers Isinglass & Glue Co, 210 Eastern av	Gloucester
Greenfield Tallow Co, 29 Olive st	Greenfield
Harrison & Co Inc, P O Box 457, Groveland st	Haverhill
Taylor Specialties Co, 1 Ford st	Haverhill
Browne Co, M C, 1114 W Hampden st	Holyoke
HERCULES POWDER CO, P O Box 308, Holyoke†	6426
Petow & Son, Edward L	Hyannis
Neponsit Color Co	Hyde Park
Turner & Hehler Co, 36 Barry pl	Hyde Park
Union Paste Co, 1605 Hyde Park av	Hyde Park
American Lanoline Corp, 13 Railroad st	Lawrence
Beach Soap Co, Lawrence st	Lawrence
Lee Lime Corp, Marbel st	Lee
COBURN CO, C B, 63 Market st, Lowell	Lowell 9331
KMERY INDUSTRIES, INC, 187 Perry st, Lowell†	Lowell 8923
Chaffardon, J, 209 Market st	Lynn
Hauthaway & Sons, C L, 638 Summer st	Lynn
Safran Chem & Supply Co, 531-33 Washington st	Lynn
BARRETT DIV, ALLIED CHEM & DYE CORP, 378 Commercial st, Malden†	Malden 7460
Curran Corp, The, 6 Pleasant st	Malden
DU PONT CO, Pigments Dept, 359 Washington st†	Malden
Eastern Lacquer Corp, 1080 Eastern av	Malden
Huggins & Son, James, 239 Medford st	Malden
Landen Putty Works, 45 Irving st,	Malden
Modern Adhesives & Chem Co, 1236 Eastern av	Malden
Solvent Chemical Co Inc, 341 Commercial st	Malden
Sterling Paint & Varnish Co, 184 Commercial st	Malden
AMERICAN CYANAMID CO, Explosives Div, Maynard†	Maynard 40
GENERAL CHEM DIV, Allied Chem & Dye Corp, Wellington sts, Medford†	Mystic 3543
Reed, Roger A, 25 Ship av	Medford
Standard Dyewood Co, 40 Locust st	Medford
Hevesatex Corp, 78 Goodyear av	Melrose
Ruberoid Co, The, Curve st,	Millis
New Bedford Tallow Co, 180 N 2 st	New Bedford
Nye, Inc, Wm F, Coggeshall Street Bridge	New Bedford
AMER MINERAL SPIRITS CO, 313 Washington st† Newton	Bigelow 7080
Ferdinand & Co, Inc, L W, Mica lane, Newton Lower Falls	
Atlantic Research Associates, Inc, 763 Washington st	Newtonville
North Adams Tallow Co, 143 Ashland st	North Adams
Regal Mfg Co, Boston rd	North Billerica
Washington Mills Abrasives Co, Main st	North Grafton
Bryant Chem Corp, 6 North st	No Quincy
Northampton Tallow Co, 5 Edgewood ter	Northampton
Payson's Indelible Ink Co, Northampton	
AMERICAN AGRIC CHEM CO, N Weymouth†	Weymouth 2640
KING & CO, INC, E & F, 640 Pleasant st, Norwood	Norwood 7-3113
Bradford Oil Co	Palmer
AMERICAN POLYMER CORP, 101 Foster st, Peabody	Peabody 2222
AMERICAN RESINOUS CHEMICALS CORP, 103 Foster st	Peabody
Crystal Gelatine Co, 217 Washington st	Peabody
Eastman Gelatine Corp	Peabody
General Electric Corp, Chemical Dept, 1 Plastics av	Pittsfield
Peabody Anti-Dust Co, 5 Washington pl	Peabody
STAHL FINISH CO, 23 Caller st, Peabody	Peabody 371
Tanners Specialty Co, Inc, 145 Lowell st	Peabody
United Finish Co, Corwin st	Peabody
Berkshire Mill Supply Co	Pittsfield
Chemical Research Labs, Inc	Pittsfield
General Electric Co, Chem Dep't, 1 Plastics av	Pittsfield
KING & CO, INC, E & F, Jackson st, Salem†	Salem 0253
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Salem Oil & Grease Co, 60 Grove st	Salem
Vortexol Co	Saugus

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Goulston Co, Geo A, Box 105	Scituate
Krimko Co	Scituate
Marden-Wild Corp, 500 Columbia st, Somerville	
AMERICAN MINERAL SPIRITS CO, 60 Foley st†	Somerville
Otterson Color Co, P O Box 34	Somerville
SESSIONS-GIFFORD CO, INC, 47 McGrath Highway, Somerville†	Prospect 6-3070
Singapore Gambier Extract Co, 25 Auburn av	Somerville
Superior Prods Co, 148-148A Pearl st	Somerville
Abrasive Products, Inc,	South Braintree
COLORADO ASBESTOS & MINING CO, Box 45, S Braintree	Braintree 2-3214
Roble, Milton F, 140 Union st	S Braintree
United Finish Co, rear Carwin st	So Peabody
Willow Brook Trout Hatchery, Loomis st	Southwick
Berkshire Color & Chem Corp, 42-44 Hampden st	Springfield
Chemical Corp, 54 Waltham av	
Eastern States Farmers Exchange, 161 Armory st	Springfield
Hampden Color & Chemical Co, 161 Armory st	Springfield
Haynes Laboratories, Inc, C W, Chandler st	Springfield
Heatbath Corp, Box-78	Springfield
KING & CO, INC, E & F (Hampden Paint Div), 161 Armory st,† Springfield	Springfield 6-6339
McKESSON & ROBBINS, INC, 88 Birnie av, Springfield†	Springfield 6-4554
MONSANTO CHEM CO, Plastics Div, Springfield	Springfield 8371
Perkins Soap Co, 210 Albany st	Springfield
Shawinigan Resins Corp, 644 Monsanto av	Springfield
Sjostrom Co, The C G V, 121 Lyman st	Springfield
American Abrasive Co	Westfield
WOLF & CO, JACQUES, 7 Salisbury rd†	Winchester 1867
Atlantic Gelatin Div, General Foods Corp, Hill st	Woburn
Marstin Adhesive Co, 148 Old Colony av	Wollaston
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Zialite Corp, 92 Grove st	Worcester

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Canadian Plants: Windsor and Toronto

Detroit, Mich. (cont'd)

Algo Chem Co, 1027 So Deacon st
AMERICAN AGRICULTURAL CHEM CO, 294 S Forman av† Vinewood 2-0146
AMERICAN CYANAMID CO, Industrial Chems Div, Fisher Bldg† Trinity 4-1450
AMERICAN CYANAMID CO, Plastics & Resins Div, Fisher bldg† Trinity 4-1450
AMER MINERAL SPIRITS CO, 6472 Selkirk av† **Plaza 6850**
American Paint & Varnish Co, 14131 Wyoming av
Armstrong Co, 241 S Post av
ATLAS MINERAL PRODUCTS CO, THE
CELANESE CORP OF AMER, 610 Stephenson Bldg† **Trinity 1-5100**
Baker & Collinson, 6545 Georgia av
BARRET DIV, ALLIED CHEM & DYE CORP, Zug Island rd† Vinewood 2-2500
Buckingham Prods Co, The, 14100 Fullerton av
CARBIDE & CARBON CHEMICALS CORP, 3011 W Grand Blvd† Trinity 1-4465
CAREY, THE PHILIP MFG CO, 6197 Hamilton av† **Madison 4680**
CELANESE CORP OF AMER, Stephenson bldg†
Chemiseal Co, Inc, The, 9516 Burnette
COLGATE-PALMOLIVE-PEET CO, 1448 Wabash av† **Cadillac 1990**
Collord Inc, 14341 Schaefer Hwy
COMMERCIAL SOLVENTS CORP, 1900 E Jefferson av† **Lorain 7-2414**
Detrex Corp, Box 501, Roosevelt Pk Annex

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Detroit Chemical Supply Co, 1965 Porter st
Detroit Chemical Works, 125 S Junction av
Detroit Rendering Co, 2500 22 st
DOW CHEMICAL CO, THE, Fisher Bldg† **Trinity 2-8188**
Doyle Corp, James W, 4470 Lawton av
DU PONT CO, Electrochemicals Dept, 966 Penobscot Bldg† **Woodward 2-7340**
DU PONT CO, Fabrics & Finishes Div, General Motors Bldg†
DU PONT CO, GRASSELLI CHEM DEPT, 1530 E Hancock av† **Temple 1-2260**
DU PONT CO, Pigments Dept, Penobscot bldg†
DU PONT CO, Polychemicals Dept, General Motors bldg†
DUREZ PLASTICS & CHEMS INC, 503 Stephenson Bldg† **Trinity 3-3700**
EATON CHEMICAL & DYESTUFF CO, 1490 Franklin st **Woodward 2-5216**
ECCLESTONE CHEM CO, INC, 2669-79 Guoin st **Lo 7-4650**
FRITZSCHE BROS INC, 1514 Dime Bldg† **Cherry 4356**
GENERAL CHEM DIV, Allied Chem & Dye Corp, Box 59, 800 Hawks av† **River Rouge**
GIVAUDAN-DELAWANNA, INC, Ford Bldg† **Randolph 4762**
HARSHAW CHEM CO, 9240 Hubbell av† **Vermont 6-6300**
Hess Co, C W, 1900 E Jefferson
HERCULES POWDER CO, Fisher bldg† **Trinity 2-1760**
HEYDEN CHEM CO, 2111 Woodward av† **Woodward 1-0998**
Howell, Edwin R, 3478 Bewick av
Hueston, C L, 1998 Glendale av
Hughes Gelatine Co, 3500 St Aubin av
Hughes Glue Co, 3500 St Aubin av
JOHNS-MANVILLE SALES CORP, Grand Blvd at 2 st† **Madison 3300**
Kerr Co, Frank W, 422 W Congress st
KOPPERS CO, INC, 154 Bagley av†
Macolac Paint and Varnish Works, 5400 E Nevada av
McKESSON & ROBBINS, INC, 515 W Jefferson av† **Woodward 2-5820**
Michigan Alkali Co, Ford Bldg
Michigan Carbon Works, 204 Forman av
Michigan Paste & Mfg Co, 2345 W Fort st
Michigan Smelt & Ref Co, Div Gohn Alum & Brass Corp, 1400 Lafayette Bldg
Midland Glue Prods Co Inc, 1478 Madison av
Minnesota Mining & Mfg Co, Adhesives & Coatings Div, 411 Piquette av†
MONSANTO CHEMICAL CO, Fisher Bldg† **Trinity 2-5728**
Moser & Son Inc, George, Penobscot bldg
Neilson Chem Co, 6564 Benson
Nelson Chems Corp, 12345 Schaefer Hwy
Nieleo Chems Corp, 19720 Florence rd
Orchard, R N, 316 Morgan blvd
Osgood Co, D H, 1900 E Jefferson
Paint Mfrs Supply Co, Wyoming & Brandt
PAISLEY PRODS INC, 6432 Cass av **Trinity 1-4600**
Palmer Show Card Paint Co, 2305 Monroe st
Park Chemical Co, 8074 Military av
Parker Rust-Proof Co, 2177 Milwaukee av E
PENNSYLVANIA SALT MFG CO, 4655 Biddle av† **Wyandotte**
Pentex Oil Co, 2621 W Warren st
Permalac Corp, 17889 Conant
Phillips Petroleum Co, 3-248 Gen Motors Bldg
Plaster Products Co, 6475 Georgia st
Plastic Prods Co, 6475 Georgia st
Preserve Surface Co, Inc, 6315 E 7 Mile rd
Protective Coatings, Inc, 10391 Northlawn
Red Indian Oil Co, 12401 Cloverdale st
REICHHOLD CHEMICALS, INC, 601-707 Woodward Heights blvd **Jordan 4-6500**
RESINOUS PRODUCTS & CHEMICAL CO, 619 Fisher Bldg† **Madison 1500**
Rogers Chem Corp, 9729 Conant
ROHN & HAAS CO, Fisher Bldg† **Madison 1500**
Roman Cleanser Co, 2700 E McNichols rd
SHELL CHEMICAL CORP, 154 Bagley av† **Woodward 1-1181**
Sherman Laboratories, 14600 E Jefferson av
SHERWIN-WILLIAMS CO, 2631 Woodward av†
Siefen Co, J J, 6667 Lauderdale
SINDAR CORP, Ford Bldg† **Randolph 4762**
Sno-Flake Products Co, 2485 Beaufait av
SOLVAY SALES CORP, 7501 W Jefferson av† **Vinewood 2-4480**
Solvental Chemical Products, Inc, 15841 Second av
Stark Co, J W, 804 New Center bldg
Stevens Inc, F B, 1800 18 st
Stevenson, R M, 506 Donovan Bldg
Terminal Sales Corp, 1627 W Fort st
Testagar & Co Inc, 638 Bagley av
Truscon Laboratories, The, Caniff & G T R R
Udylite Corp
U S INDUSTRIAL CHEMICALS, INC, 1448 Wabash av† **Cadillac 4230**
V E P Co, 440 E Lafayette av
Wagner Co, A T, 2720 Wight st
Wayne Soap Co, 9476 Copeland st
WELLINGTON SEARS CO, 439 Penobscot Bldg† **Randolph 1500**
Western Rosin & Turpentine Corp, 6472 Selkirk av
Western Solvents & Chems Co, 6472 Selkirk av
Western Waterproofing Co, 155 Congress st, W
WESTVACO CHEM DIV, Food Machry & Chem Corp, 1900 E Jefferson st† **Melrose 0666**
WITCO CHEM CO, 1249 Washington blvd† **Cherry 0577**
Wolverine Cement Co, 1840 Mack av
Wolverine Shingle & Lumber Co, 14930 Linwood st
WYANDOTTE CHEMICALS CORP, Michigan Alkali Div, 1219 Dime Bldg† **Cadillac 7200**
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Swavel Varnish Works, Inc, 1262 Campal av	Flint
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Antrim Iron Co, 907 Michigan Trust Bldg	
COMMERCIAL SOLVENTS CORP, 302 Houseman Bldg†	**Grand Rapids 6-1670**
Grand Rapids Varnish Co, 1350 Steele av S W	
Grand Rapids Wood Finishing Co, 53-71 Grandmille av. S W	
Haviland Prods Co, 421 Ann N W	
JOHNS-MANVILLE SALES CORP, 201 Monroe av N W†	93588
Johnstone & Van Domelen, Jr, 505 W Fulton	
Krekel Goetz Sales & Sup Co, 302 Houseman Bldg	
Miller Co, J C, 528 Lake Michigan dr NW	
Osokerite Mining Co, 146 N Division av	
REILLY TAR & CHEM CORP, 1035 Godfrey av S W†	**5-1181**
Tanners Supply Co, 509-510 Murray Bldg	
Western Oil & Rosin Corp, 1500 Century av, SW	
Western Oil & Turpentine Co, 1500 Century av, S W	
Wolverine Finishes Corp, 836 Chicago dr, S W	
WOLVERINE SOLVENTS & CHEMS CO, 1500 Century av	**59-111**

Inland Chemical Prods Co, 803 Elm st	Hancock
Allied Chemists, Inc, College av & 22 st	Holland
Harwyd Chemicals Inc	Holland
Holland Color & Chem Co, 492 Douglas st	Holland
ATLAS POWDER CO, Box 72	**Houghton 480**
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Kalamazoo† Kalamazoo 5129	
GENERAL CHEM CO, 800 Hawks av, P O Box 59, River Rouge†	
HERCULES POWDER CO, 411 Superior av†	8161
Kalamazoo Chem Co, 326 W Kalamazoo av	
Kalamazoo Paraffine Co	
Kalamazoo Rendering & Fert Co	
Kelly Co, F J, 1807-19 N Pitcher st, Kalamazoo	
Protection Prods Mfg Co, P O Box 747, Kalamazoo	
JOSEPH TURNER & CO, Remington Bldg†	

CARRIER-STEPHENS CO, Lansing	**Lansing 20631**
Edwards Laboratory, The, 729 Ionia st	Lansing
Inland Lime & Stone Co	Manistique
Cliffs Dow Chem Co	Marquette
Limestone Products Co	Menominee
DOW CHEMICAL CO, Midland	**Midland 500**
American Grease Stick Co	Muskegon
Western Michigan Chem Co, 940 Turner st	Muskegon
Northville Laboratories Inc	Northville
Detroit Rock Salt Co	Oakwood
Northern Lime & Stone Co	Petoskey
Pontiac Hide Co, 26 W Alley st	Pontiac
Acheson Colloids Corp, 3070 Washington av	Port Huron
Port Huron Detergents Co, Inc, 1320 2nd st	Port Huron
Robeson Preserve Co	Port Huron
McAleer Mfg Co, Box 49, Rochester	
Michigan Silica Co	Rockwood
Michigan Limestone & Chem Co	Rogers City
Saginaw Salt Prods Co, 806 Carrolton Rd	Saginaw
United States Graphite Co, 1620 Holland av	Saginaw
Diamond Crystal Salt Co, Inc, 915 S Riverside st	St Clair
Kelsan Products, 1015 S 6th st	St Clair
Beecham Labs	St Johns
MICHIGAN CHEM CORP, St Louis	St Louis 41
Delta Chemical & Iron Co	Wells
Crown Chem Co, 115 N Mears av	Whitehall
SMITH CO, THE WERNER G, Div of Archer-Daniels-Midland Co, 2191 W 110 st†	**Woodbine 4690**
DU PONT CO, Electrochemicals Dept, 51 Pine st, Wyandotte†	Wyandotte 3000
WYANDOTTE CHEMICALS CORP, J B Ford Div, Wyandotte	Wyandotte 1700
WYANDOTTE CHEMICALS CORP, Michigan Alkali Div, Wyandotte	Wyandotte 1700
Chemical Specialties Inc	Zeeland

MINNESOTA

Hormel & Co, George A	**Austin**
Cutler-Magner Co, 1114 Fidelity Bldg	**Duluth**

Minnesota (cont'd

Di Santo & Co, 118 4th av W	Duluth
DU PONT CO, Explosives Dept, 742 E Superior st†	Duluth
HERCULES POWDER CO, 314-16 W Superior st, Duluth	Melrose 3335
Standard Salt & Cement Co, 248 S Lake av	Duluth

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ARCHER-DANIELS-MIDLAND CO, 600 Roanoke bldg	Atlantic 2112
Bentley Paste & Oil Co, 113 Plymouth av N	
Boiler Water Service Co, 2113 Chicago av	
CAREY, THE PHILIP MFG CO, 1000 Washington av, S†	**Geneva 3677**
Chemical Spray Co, 227 N 1st st	
COLGATE-PALMOLIVE-PEET CO, 1104 Foshay Tower†	**Main 0340**
DU PONT CO, Grasselli Chems Dept, Foshay Tower†	
Duree-Atwood Co, 216 7 st	
Empire Soap & Chem Co, Plymouth av	
Flox Co, 1409 Willow st	
Forman, Ford & Co, 111-125 S 2 st	
GENERAL CHEM CO, 129 6 av, S E†	Geneva 8681
GENERAL MILLS INC, Chem Div, 400 2 av south	Atlantic 1144
Haertel Prods Co, Walter, 2840 4th av So	

L C L & CARLOADS

INDUSTRIAL CHEMICALS

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HAWKINS CHEMICAL CO.

3100 EAST HENNEPIN AVE. MINNEAPOLIS 13, MINN

BRidgeport 8789 NEstor 7591

HAWKINS CHEMICAL CO, 3100 E Hennepin av	Bridgeport 8789
JOHNS-MANVILLE SALES CORP, Baker Bldg†	Atlantic 3408
Land O'Lakes Creameries, Inc, 2201 Kennedy st, NE	
Linseed By-Products Co, 562 Chamber of Commerce	
McKESSON & ROBBINS, INC, 24 N 3 st†	Main 1311
McLaughlin Gormley King Co, 1715 5th st SE	
MERCHANTS CHEM CO INC, 110 N E 6 st†	Lincoln 6978
METALLOY CORP, Rand Tower	Atlantic 2391
Minneapolis Hide & Tallow Co, 727 Temple st	
Minnesota Linseed Oil Plant Co, 1101 S 3rd st	
Minnesota Paints Inc, 1101 S 3 st	
Minnesota Salt Co, 1000 Washington av S	
Nat'l Soap & Chem Co, 110 5 av SE	
Northern Bleaching Clay Co, 901-907 9th st S E	
PENNSYLVANIA SALT MFG CO, 1100 Baker Bldg†	Atlantic 3006
PITTSBURGH PLATE GLASS CO, Columbia Chemical Div, 616 S 3rd st†	**Atlantic 1481**
REILLY TAR & CHEM CORP, St Louis Park†	Walnut 2539
Richards Chemical Co, 529 S 7 st	
Schioff Co, 13 S 4 st	
SMITH CO, THE WERNER G, (Div of Archer-Daniels-Midland Co), 600 Roanoke Bldg†	**Atlantic 2112**
STERWIN CHEMICALS INC, Rand Tower†	Pleasant 7610
Stewart Paint Mfg Co, 1729 N 2 st	
THOMPSON-HAYWARD CHEM CO, 909 2 st†	Main 5394
U S INDUSTRIAL CHEMICALS, INC, 327 25th av SE†	Gladstone 1877

PITTSBURGH PLATE GLASS CO, Linseed Oil Div, Red Wing	2813
AMER AGRIC CHEM CO, 615 Drake st, St. Paul†	Dale 1901
Chase & Hale, Inc, 2225 University av	St Paul
DU PONT CO, GRASSELLI CHEM DIV, 2365 Hampden av†	St Paul
General Finishes, Inc, 1951 University av	St Paul
JOHNS-MANVILLE SALES CORP, Pioneer Bldg, St Paul†	Garfield 1191
C & H Products Co, 2288 University av	St Paul
Lyons Chems Inc, 2303 Hampden av	St Paul
Minnesota Chem Co, The, 2285 Hampden av	St Paul
Minnesota Mining & Mfg Co, 900 Fauquier av, St Paul	
Moore & Co, L A, 740 Vandalia av	St Paul
Morgan Varnish & Paint Co, 1906 Ashland av	St Paul
Sta-Vis Oil Co, 184 Eagle st	St Paul
Twin City Milk Products Assn, 2402 Union av	St Paul
U S INDUSTRIAL CHEMICALS, INC, 1111 Nicollet av, St Paul†	Geneva 3366
Worom Chem Co, 2130 Kasota av	St Paul
Feldspar Prods Co, Inc	Warroad

MISSISSIPPI

Pringle Gay Naval Stores	Biloxi
Southern Naval Stores Division	Columbia
Phoenix Naval Stores Co	Gulfport
Dixie Pine Products Co	Hattiesburg
Jackson Fertilizer Co	Jackson
VIRGINIA-CAROLINA CHEM CORP, P O Box 492, 501 Lampton Bldg, Jackson†	Jackson 4-5071
Continental Turp & Rosin Corp, Suburban P O Box 1036	Laurel
AMERICAN AGRIC CHEM CO, P O Box 446, Laurel†	Laurel 380
Laurel Oil & Fert Co	Laurel
Leland Oil Works	Leland
Imperial Cotton Oil Co	Macon
Eagle Cotton Oil Co	Meridian
Southern Chinawood Oil Co	Moss Point
Winona Oil Mill	Winona

MISSOURI

Superior Mineral Co	Cadet
Planetary Chem Co	Creve Coeur
ATLAS POWDER CO, Joplin Nat'l Bank Bldg, Joplin†	Joplin 924
DU PONT CO, Explosives Dept, 402 Main st†	Joplin
HERCULES POWDER CO, 404 Main st, Joplin†	183
Independent Gravel Co, 2201-2 W 4th st	Joplin

KANSAS CITY

American Creosoting Co, 2800 Oakland st	
AMERICAN CYANAMID CO, Agricultural Chems Div, 628 Dwight Bldg†	Harrison 7146
Anderson Stols Corp, 1731-33 Walnut st	
Ash Grove Lime & Portland Cement Co, Fairfax Bldg	
Barada & Page Inc, Guinotte & Michigan av	
Bertram Naphtha Co, 3323 Roanoke rd	
Butler Manufacturing Co, 7400 E 13th st	
CAREY, THE PHILIP MFG CO, 2028 Grand av†	Harrison 6313
Central Chemical Co, 510 West 5th	
COLGATE-PALMOLIVE-PEET CO, Packers Station†	Drexel 3-100
COMMERCIAL SOLVENTS CORP, 7 E 19 st†	Grand 7803
Darrow Supply Co, 2921 Brooklyn av	
Deady Chem Co, 1316 St Louis av	
DU PONT CO, Electrochemicals Dept, Guinotte & Michigan av†	
DU PONT CO, Explosives Dept, 1805 Grand av†	
DU PONT CO, Film Dept, 1004 Baltimore av†	
Ebony Paint Mfg Co, 2925 E 18 st	
Evans Lime & Material Co, Inc, 79 Terrace & Broadway	
Faultless Starch Co, 1025 W 8 st	
Fuller Co of Mo, H B, 915 B'way	
GENERAL CHEM CO, 1104 Union av†	Harrison 1179
Gordon Chemical Co, Geo, 1100 Hickory st	
Hood Chemical Co, 507-517 N Montgall av	
Hubbard Co, 2819 South West Blvd	
JOHNS-MANVILLE SALES CORP, 2010 McGee st†	Grand 0303
Kansas City Glue & Paste Co, 2113 E 15 st	
Kansas City Laboratory Supply Co, 1434 Wyandotte	
Kansas City Limeolith Co, 2915 Southwest blvd	
Kansas City Oxygen Gas Co, 2012 Grand av	
Larbig Chem & Mfg Co, 1210 W 9 st	
Lox Mfg Co, 3310 E 31st st	
McKESSON & ROBBINS, INC, 712 Bway†	Victor 3210
MICHIGAN CHEM CORP, 21 W 10 st†	
Mid-Co Products Co, 238 Railway Exchange Bldg	
Morton-Myers Co, P O Box 1029	
National Lumber & Creosoting Co, Dwight Bldg	
Pearson Ferguson Chem Co, 1400 Union av	
Per-Mo Prods Co, 3604 Woodland av	
Puritan Compressed Gas Corp, 2012 Grand av	
ROHM & HAAS CO, INC, 1221 Baltimore av	
SHERWIN-WILLIAMS CO, THE, P C & C Div, 1520 Grand av†	
Skelly Oil Company, 605 W 47 st	

For further information on any product advertised in the BUYERS GUIDE, use the Readers' Service Card — on the green inserts.

Kansas City, Mo. (cont'd)

SPENCER CHEMICAL CO, 1004 Baltimore av†	Victor 2822
STERWIN CHEMICALS INC, Dwight bldg†	Victor 4500
Superior Chemical Sales Co, 1210 W 9 st	
THOMPSON-HAYWARD CHEMICAL CO, 2915 Southwest blvd	Talbot 2473
United Chemical Co, Inc, 401 Delaware st	
U S INDUSTRIAL CHEMICALS, INC, 507-517 N Montgall av†	Victor 3437
VICTOR CHEMICAL WKS, Board of Trade Bldg†	Harrison 3051
Webb Belting Co, 1507 W 12 st	
Webb Mfg Co, 1818 Baltimore st	
Western Chem Co, 713-15 Washington st	

Green Fire Brick, A P	Mexico
Point Milling & Mfg Co	Mineral Point
Sunflower Chem Co, Inc, 1225 Board of Trade Bldg	No Kansas City
Western Lime Wks	St Genevieve

ST. LOUIS

Allan, Homer G, 5933 Enright av	
Aloe Co, A S, 1819 Olive st	
AMERICAN CYANAMID CO, Industrial Chems Div, Shell Bldg†	Chestnut 2167
AMERICAN CYANAMID CO, Plastics & Resins Div, Shell bldg†	Chestnut 2167
American Fire Protection Co, Arcade Bldg	
AMERICAN ZINC SALES CO, 1600 Paul Brown Bldg†	L D 285
Anheuser-Busch, Inc, 721 Pestalozzi st	
Arrow Boiler Compound Co, 3341 Pennsylvania av	
Associated Sales & Supply Co, 5127 Southwest av	
ATLAS POWDER CO, Continental Bldg†	Franklin 0900
BARRETT DIV, ALLIED CHEM & DYE CORP, 4528 S Broadway†	Riverside 6510
Baumstark & Co, Harry A, 4030 Chouteau av	
Belle Clay Co, 6645 Waterman av	
Bitucote Products Co, 1411 Central Industrial Drive	
Brown Petroleum Co, R J 1416 Wittenberg	
C-A Wood Preserver Co, 6625 Delmar blvd	
CARBIDE & CARBON CHEMICALS CORP, 3615 Olive st†	Franklin 6390
Carboline Co, 7603 Forsyth blvd	
CAREY, THE PHILIP MFG CO, 4165 Duncan av†	Newstead 1930
Chem Sales Co, 2714 S 2 st	
COLGATE-PALMOLIVE-PEET CO, 1174 Arcade Bldg†	Garfield 5060
Columbia Quarry Co, 1007 Washington av	
COMMERCIAL SOLVENTS CORP, 926 Spruce st†	Chestnut 9656
Counts Soap Co, James, 3216-18 Delmar blvd	
DIAMOND ALKALI COMPANY, 4246 Forest Park Blvd†	Jefferson 7955
Dietrich Prods Co, 4549 Olive st	
Dill-Hough Co, 608 S Main st	
Donzelot & Sons, Eugene, 117-123 S 3rd st	
DOW CHEMICAL CO, 3615 Olive st	Newstead 4977
Dri Brite, Inc, 4443 Cook st	
DUCHE, T M & SONS, INC, 2113 Pine st†	
DU PONT CO, Fabrics & Finishes Div, 3643 Delmar blvd†	
DU PONT CO, Grasselli Dept, 112 W Perry st†	Garfield 2200
DU PONT CO, Polychemicals Dept, 818 Olive st†	
Dykem Co, The, 2301 N 11 st, St Louis	
FRITZSCHE BROTHERS, INC, 308 S 4 st†	Garfield 2-2332
Furlong Varnish Co, 1709 S 2nd st	
Gage Glue Co, W H, 2525 Cass av	
Garvey Fountain Brush & Ink Co, 4381 Duncan av	
GENERAL CHEM CO, 818 Olive st†	Chestnut 3870
George Co, P D 5200 N Second st	
Germo Mfg Co, 112 S Main st	
Glencoe Lime & Cement Co, 1608 Pine st	
Harco Prods Co	
Hayes Adhesives Co, 2316 Randolph st	
HERCULES POWDER CO, 3615 Olive st†	Jefferson 8814
Hiertz Metal Co., Theo, 8011 Alaska st	
Hill Hentschel Co, 3928 Clayton av	
Industrial Soap Co, 1501 S 8 st	
JOHNS MANVILLE, 1000 Market st†	Central 3940
Johnston Foil Mfg Co, 6100 S B'way	
Knapp, Harry G, 705 Olive st	
Laclede-Christy Clay Prods Co, 171 Ambassador Bldg	
Lasalco Inc, 2818 LaSalle st	
Lehon Co, The, 816 S Teresa st	
Levison & Blythe Mfg Co, 612 N Second st	
MALLINCKRODT CHEM WKS, 2nd & Mallinckrodt sts	Central 8900
MATHIESON CHEM CORP, 1045 Paul Brown Bldg†	Garfield 6048
McKESSON & ROBBINS INC, 320 S Bway†	Main 3440
MERCK & CO, INC, 4528 So Broadway†	Riverside 7000
Meyer Bros Drug Co, 217 S 4th st	
Michigan Chem Corp, 500 N Bankson	
Millard-Heath Company, 400 N 3rd st	
Missouri Paint & Varnish Co	
MISSOURI SOLVENTS & CHEMS CO, 419 De Soto av	Garfield 3495
Mitchell-Mayer Co, Inc, 3506 Market st	
MONSANTO CHEMICAL CO, 1700 So Second st	Main 4000
Mound City Chemical Co, 710 N 12th blvd	
Mosel Chemical Products Co, 3916 Geraldine av	
NEW YORK QUININE & CHEM WKS, INC, 915 Market st†	Chestnut 7136
Nicotine Mfg Co, 402 Rialto Bldg	
Packwood Mfg Co, G H, 2038-42 Walnut st	

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St. Louis, Mo. (cont'd)

PAISLEY PRODS INC, 5936 Loughborough av† — Plateau 7921
Peck's Products Co, 610 E Clarence av
Peerless White Lime Co, 507 Louderman Bldg
PHILADELPHIA QUARTZ CO, 4238 Geraldine av† — Evergreen 5944
PITTSBURGH PLATE GLASS CO, Columbia Chem Div, 3650 Market st†
Reardon Co, The, 2200 N 2 st
REILLY TAR & CHEM CORP, Granite st† — Illinois 1300
Riverside Mfg Co, 4919 Connecticut st
Robins & Co, G S, 126 Chouteau av
Rock Hill Asphalt & Const Co, 8820 Ladue rd
Ste Genevieve Lime Co, 1400 Ambassador Bldg
St Louis Chem Mfg Co, 2500-10 Texas av
St Louis Glue Mfg Co, 19 S Main st
St Louis Paint Mfg Co, 1014 S Cardinal st
St Louis Rubber Cement Co, 3952 W Pine blvd
St Louis Sulphur & Chem Co, 300 E Primm st
Sayman Products Co, T M, 2117 Franklin st
SHELL CHEM CORP, 1221 Locust st† — Chestnut 7420
SHERWIN-WILLIAMS CO, THE, P C & C Div, 515 Spruce st† — Chestnut 6684
Silica Prods Dept, National Lead Co, 722 Chestnut st
Skasol Corp, 4217 Race Course
SOLVAY SALES CORP, 3615 Olive st† — Newstead 3636
Southern Acid & Sulphur Co, Inc, Rialto Bldg
STEIN, HALL & CO INC, 4630 Chouteau av†
STERWIN CHEMICALS INC, 636 N Grand blvd† — Newstead 3666
THOMPSON-HAYWARD CHEM CO, 5 Carr st† — Chestnut 2170
Tretolite Co
U S INDUSTRIAL CHEMICALS, INC, 1600 Clark av† — Garfield 5141
Vestal Chem Labs Inc, 4963 Manchester st
VIRGINIA-CAROLINA CHEM CORP, Box 191† — Bridge 7070
Wagner Electric Corp, 6400 Plymouth av
Walsh Refractories Corp, 101 Ferry st
WESTVACO CHEM DIV, Food Machry & Chem Corp, 1221 Locust st† — Chestnut 1182
White Paste Co, 2320 Chestnut st
Whitmire Research Corp, 539 S Vandeventer st
WOOD TREATING CHEMICALS CO, 5137 Southwest av — Ladeide 2201
WYANDOTTE CHEMICALS CORP, Michigan Alkali Div, 918 Shell Bldg† — Chestnut 4373

MONTANA

Anaconda Copper Mining Co, 612 Metals Bk Bldg — Anaconda
Carr-O'Neill Brokerage Co, Metals Bk Bldg — Butte
Elliston Lime Co, 303 Ewing st — Helena
Jardine Mining Co, — Jardine

NEBRASKA

Archem Corp — Crete
LaRue Axtell Pumice Co — Eustis
Farmaide Prods Co, 2637 Randolph st — Lincoln
Lessonhop & Sons, Inc, G F, 735 O st — Lincoln

OMAHA

Central West Chem Co, 603 Redick Tower
Chemical Prods Co, 3014-16 N 24 st
COLGATE-PALMOLIVE-PEET CO, 812 W O W Bldg† — Jackson 7633
DIAMOND ALKALI COMPANY, 603 Redick Tower Bldg† — Atlantic 6760
French Brokerage Co, 1402 Nicholas st
Haskins Bros & Co, 115 Hickory st
JOHNSON, S C & SON, INC, 13 & Capital av† — Atlantic 1634
McKESSON & ROBBINS, INC, 902 Farnam st† — Atlantic 5000
MERCHANTS CHEM CO, INC, 605 Leavenworth st† — Atlantic 4755
Miller Chem Co, 525 N 15 st
Monarch Chemical Works, 22 & av H
Nebraska Fertilizer Co, Farm Credit Bldg
THOMPSON-HAYWARD CHEMICAL CO, 1110 South 4th st† — Webster 4700
United States Oil Works, P O Box 1075
Van Sickle Glass & Paint Co, 143 S 10 st
Warren-Douglas Chem Co Inc, 1518 Burt st
Western Limestone Prods Co, 636 Brandeis Theatre Bldg
Western Mineral Prods Co

NEVADA

AMECCO CHEMICALS, INC, Henderson
Nevada-Massachusetts Co, Inc — Mill City
Mina Mercury Co — Mina
Rhodes Alkali & Chem Corp — Mineral County

NEW HAMPSHIRE

N H Diatomite Co, 207 Patriot Bldg — Concord
Taylor Gluem Co — Concord

New Hampshire (cont'd)

Harrison Abrasive Corp — Manchester
Concord Mica Corp, 28 Crescent st — Penacook
New Hampshire Diatomite Co — Portsmouth
WARWICK CHEM CO, 198 Main st† — Somersworth
Wood Flour Inc — Winchester

NEW JERSEY

American Pyroxylin Corp, 76 Second av — Arlington
DU PONT DE NEMOURS & CO, Plastics Dept — Arlington
Asbury Graphite Mills, Inc, Warren County — Asbury
Barber Asphalt Corp, State st — Barber
Palmer Asphalt Co, 196 W 5 st — Bayonne
AMERICAN DYEWOOD CO, Main & Joralemon sts, Belleville† — Belleville 2-1140
Hardman Co Inc, H B, 571 Cortlandt st — Belleville
N Y COLOR & CHEM CO, 376 Main st — Belleville 2-1140
Palmer Asphalt Co, 196 W 5 st — Belleville
Rare Metal Products Co, North End, Cortlandt st — Belleville
Varley Chem Co, Inc, 100 Maine st — Belleville
REHEIS CO INC — Berkeley Hghts
Scott & Bowne Vitamin Corp — Bloomfield
Sherka Chem Co, Inc, 86 Orange st — Bloomfield
Westinghouse Lamp Div Spec Prods Dept — Bloomfield
AMERICAN CYANAMID CO, Calco Chem Div, Bound Brook — Bound Brook 9-2000
CALCO CHEM DIV PHARMACEUTICAL DEPT, Bound Brook — Bound Brook 9-200
Chipman Chem Co, Inc — Bound Brook
R B H DISPERSIONS, DIV OF INTERCHEMICAL CORP, 1-5 Factory Lane — Bound Brook 9-0700
Camden Coke Co — Camden
Clement "Coverall" Co, 611 Van Hook st — Camden
Hollingshead Corp, R M — Camden
Kind & Knox Gelatine Co, 5th & Erie sts — Camden
Mechling Chem Div, General Chem Co, Coopers Creek & Lime st — Camden
Sahlin Color & Chem Co, 1417-29 Sheridan st — Camden
Standard Soap Co of Camden, 205 S 2 st — Camden
Taylor-White Extracting Co, Cooper River & Pine st — Camden
Amer Alkyd Industries, Inc, Broad & 14 st — Carlstadt
Carlstadt Chem Co — Carlstadt
Randolph Finishing Prods Co, Berry st — Carlstadt
Royce Chem Co — Carlton Hill
AMER AGRIC CHEM CO, Carteret† — Carteret 5096
AMERICAN MINERAL SPIRITS CO — Carteret
Basic Chem Co Inc — Carteret

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METAL & THERMIT CORP, Carteret† Carteret 8-0401
VIRGINIA-CAROLINA CHEM CORP† Carteret 8-1370
Hungerford-Terry Inc Clayton
Stell Research Lab, 579 Dewey av Cliffside Park
SCHER BROTHERS, 519 Getty av, Clifton, N J Sherwood 2-5650
TAKAMINE LAB, INC, 193 Arlington av, Clifton Prescott 9-4776
Callahan & Co Inc, Geo Closter
JOHNS-MANVILLE SALES CORP, 604 Central av, E Orange† Orange 5-3300
Wilson, A L Chem Co, 545 N Arlington av East Orange
ARCHER-DANIELS-MIDLAND CO, Edgewater† Cliffside 6-1100
MATHESON CO, INC, 337 Paterson Plank rd, E Rutherford Rutherford 2-9500
PARAGON DIV, Mathieson Co Inc, E Rutherford Rutherford 2-9500
Trubek Labs Inc, The, State H'way Route 17 E Rutherford

ELIZABETH

Arlin Chemical Co, Bayway & Amboy av
BARRETT DIV, ALLIED CHEM & DYE CORP, 86 Elizabeth av† Elizabeth 2-4960
Booth Chemical Co, P O Box 203
Genuine Chem Co, 824 Livingston st
GEORGIA KAOLIN CO, 433 N Broad st Elizabeth 2-1636
Kuehne Chemical Co. Woodruff lane
Lanaetex Prods Inc, Box-52, Sta-A
Metals Disintegrating Co Inc, P O Box 290
NUODEX PRODS CO INC, 830 Magnolia av Elizabeth 3-2345
REICHHOLD CHEMS, INC, Eastern Div, 726 Rockefeller st† Elizabeth
Roxalin Flexible Lacquer Co, 800 Magnolia av
Smith Lime Flour Co, 535 Livingston st
VAN AMERINGEN-HAEBLER INC, 417 Rosehill pl† Elizabeth 2-3450

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METASAP CHEMICAL CO.
Logan & Davis Sts., Harrison, N. J.

Sherwood Refining Co, Inc, 1 W Forest av Englewood
Dixo Co, 226 River Rd Garfield
Elk Co, Inc, B R, 193 Palisade av Garfield
Carbogen Chem Co, Bell Terminal Garwood
Magnus Chem Co, 8 South av Garwood
Southport Chemical Co, Inc, 500 South av Garwood
LA PLACE, L J & M, 83 Zabriskie st, Hackensack Hackensack 3-0412
Amer Lithographic Varnish Co, 926 Harrison av Harrison
American Oxygen Service Corp, 600 Essex st Harrison
METASAP CHEM CO, Logan & Davis sts, Harrison Harrison 6-6200
NOPCO CHEMICAL CO, Logan & Davis sts, Harrison Harrison 6-6200
U S Varnish Co, 627 Franklin av Hasbrouck Heights
Magna Mfg Co Inc Haskell

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(Surface Active Chemicals)

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NOPCO CHEMICAL CO.
Logan & Davis Sts., Harrison, N. J.

New Jersey (cont'd)

WOBURN CHEMICAL CORP (NJ) Harrison Kearny 2-3300
HARMON COLOR WKS INC, P O Box 14, Hawthorne Lambert 3-2900
Malcolm Nicol & Co Hawthorne
METALSALTS CO, 200 Wagaraw rd, Hawthorne Hawthorne 7-6000
KESSLER CHEM CORP, THE, 1515 Willow av† Hoboken
ROSS & CO, FRANK B, 507 8th st, Hoboken Hoboken 3-4100
STANDARD CHEM PRODS, INC, 1301 Jefferson st, Hoboken Hoboken 3-1200
Windsor Wax Co Inc, 611-617 Newark st Hoboken
Atlas Paint & Varnish Co, 140 Coit st Irvington
Irvington Varnish & Insulator Co, 6 Argyle Terrace Irvington
Kemiko Mfg Co, 500 Chancellor av Irvington
Laning Co, E M, 433 Stuyvesant av Irvington
Marx Max Color & Chem Co, 192 Coit st Irvington

JERSEY CITY

AMER WAX REFINING CORP, Caven Point rd Bergen 4-3237
Baker Paint & Varnish Co, 218-238 Suydam av
Cidex Corp, 85 Franklin st
CITY CHEMICAL CORP, 100 Hoboken av† Journal Square 2-6900
Cloroben Corp, The, 225 Mercer st
COLGATE-PALMOLIVE-PEET CO, 105 Hudson st Bergen 4-1300
COLGATE-PALMOLIVE-PEET CO, 1 Newark av†
Colonial Mica Co
DIAMOND ALKALI CO, Standard Silicate Division, 651 Jonnels st† Journal Square 4-4721
DIXON CRUCIBLE CO, JOS, Wayne & Monmouth sts Delaware 3-3000
Ducas Co, Inc, B P, 2070213 Van Vorst st
Dye Specialties Inc, 924 Bergen av
Fabric Chemicals Company, 61-63 Cornelison av
General Metallic Oxides Co, 1st & Henderson sts
Harrop Chemical Co, 135 Hoboken av
Impol Co, Inc, 228 Kearney av
Import Chem Co, 164 1st st
MALLINCKRODT CHEM WKS, 223-224 West Side av† Bergen 3-2187
NATURAL PRODUCTS REFINING CO, 902 Garfield av Bergen 3-4060
Neutrasol Oils, Inc, 115 Morris st
ONYX OIL & CHEM CO, 190 Warren st Bergen 4-1700
PATENT CHEMS, INC, 57 Wilkinson av† Bergen 3-6018
Reade Mfg Co Inc, 135 Hoboken av
ROSS CO, INC, FRANK B, 6-10 Ash st Bergen 3-4512
Seydel Chemical Co, 225 Mercer st
Smooth-on Mfg Co, 572 Communipaw av
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Titan Chem Products Inc, Mill rd & Wayne st
Unisol Mfg Co, 1 Exchange pl
United Chem Prod Corp, 472 York
Vitamoil Lab Inc, Ft of Henderson st

Amer Lithographic Varnish Co, 926 Harrison av Kearny
American Textile Chem & Engineering Corp, 681 Schuyler av Kearny
Kearny Manufacturing Co, Inc, 681 Schuyler av Kearny
KOPPERS CO TAR & CHEM DIV, Harrison Turnpike† Kearny 2-6000
Masco Chem Co, Inc, 257 Duke st Kearny
NITROGEN PRODS, INC, BENZOL DISTRIBUTORS DIV, 926 Harrison av, Kearny Bergen 4-5478
WHITE TAR DIV, KOPPERS CO, INC, Belville Turnpike, Kearny Kearny 2-3600
GENERAL CERAMICS & STEATITE CORP, Keasbey† Perth Amboy 4-5100
France, Campbell & Darling Inc, Michigan av & Monroe st Kenilworth
Protexol Corp, 49 Market st Kenilworth
Bopf-Whittam Corp, 1125-1153 Elizabeth av W Linden
Solar Compound Corp, 1201 W Blanke st Linden
Stanetal Corp, 1300 Allen st Linden
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LEMKE & CO INC, B L, 199 Main st, Lodi Prescott 7-5805
MATHE CHEMICAL CO, 169 Millbank st, Lodi Prescott 9-4981
STONEY-MUELLER, INC, Page & Newark avs, Lyndhurst Rutherford 2-7420
Murray-Williams Color & Chem Co, 353 Boyden av Maplewood
Fiber Chem Corp, P O Box 218 Matawan
Hanson-Van Winkle-Munning Co Matawan
MAYWOOD CHEM WKS, 100 W Hunter av, Maywood Hackensack 2-2020
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Edgar Bros Co, Station pl Metuchen
American Cholesterol Prods, Inc Milltown
N J Silica Sand Co Millville
CONCORD CHEMICAL CO, Moorestown Moorestown 9-1100
Micronizer Company Moorestown

NEWARK

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American Oil & Supply Co, 242 Wilson av
American Platinum Wks, 231 N J R R av
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Anti-Hydro Waterproofing Co, 265 Badger av
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Atlas Refinery, 142 Lockwood st

Newark, N. J. (cont'd)

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BARRETT DIV, ALLIED CHEM & DYE CORP, Jacobus & 3rd† Mitchell 3-0980
Bay State Chemical Co, 410 Frelinghuysen av
BENZOL PRODS CO, 237 South st Market 3-6141
CARBIDE & CARBON CHEMICALS DIV, Union Carbide & Carbon Corp, 1060 Broad st† Market 3-8665
C P CHEMICAL SOLVENTS, INC, THE, 60 Park pl, Newark, N J Market 3-3650
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Chalmers Chemical Co, 123 Chestnut st
Chemical Commerce, 470 Avon av
Chemtronic Labs, 149 Malvern st
C-O-Two Fire Equipment Co, P O Box 390, U S H'way
Colloids, Inc, 394-8 Frelinghuysen av
Consolidated Chem Sales Corp, 185 Market st
Consolidated Color & Chem Co, Lister av
Dehls & Stein, Inc, 237 South st
DENNIS CO, MARTIN, THE, 859 Summer av Humboldt 3-2874
Duralac Chem Corp, 84-90 Lister av, Newark
Eastern Chemical Corp, 34 Spring st
Egyptian Lacquer Mfg Co, P O Box 444
FAIRMOUNT CHEM CO, INC, 600 Ferry st† Market 3-4392
FIDELITY CHEMICAL PRODS CORP, 430 Riverside av Humboldt 3-3660
GENERAL CHEM DIV, Allied Chem & Dye Corp, 744 Broad st Market 3-4450
GENERAL COLOR CO, INC, 265 Wright st Bigelow 8-2575
Industrial Solvents Co, 850 Broad st
Inertol Co Inc, 480 Frelinghuysen av
Interchemical Corp, Finishes Div, 57 State st
Keiner Co, The, 410 Adams st
Kem Products Co, Inc, 229 High st
KOLKER CHEM WKS INC, 80 Lister av Market 2-5458
Lewis Roberts Inc, 72 Union st
Lubriplate Div, Fiske Bros Refining Co, 129 Lockwood st
Maas & Waldstein Co, 438 Riverside av
Magicleaner Co, 55 Jones st
Maltbie Chem Co, 250 High st
May, Otto B, Inc, 198-212 Niagara st
Meta Chemical Corp, 398 South st
Montrose Chem Co, 120 Lister av
Murphy Varnish Co, 224 McWhorter st
NATIONAL OIL & SUPPLY CO, 172 Frelinghuysen av Bigelow 3-0700
N J Laboratory Supply Co, 235 Plane st
New Process Metals Corp, 62 Mulberry st
Phoenix Oil Prods Corp, 199 Pacific st
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Pomeroy Co, I, 26 Nicholson st
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REHEIS CO INC, 88 Shipman st Market 2-3191
Seidler Chemical & Supply Co, 12-16 Orange st
Sergeant Chem Co, 120 Lister av
Reusche & Co, L, 2 Lister av
SHELL CHEMICAL CORP, Raymond Commerce bldg† Mitchell 3-1100
SHERWIN-WILLIAMS CO, Lister av† Market 3-4200
Siemon Color, Inc, 174 Pennsylvania av
Union Chemical Corp, 410 Frelinghuysen av
Uni-Tan Extract Corp, Newark Seaboard Terminal
UNITED CARBON CO INC, Brown & Lister av† Market 3-5134
United Color & Pigment Div, Interchemical Corp, Evergreen av
UTILITY COLOR CO, INC, 377-399 Frelinghuysen av Bigelow 8-2757
VERONA CHEMICAL CO, 26 Verona av Humboldt 3-3200
Vita-Var Corp, 46 Albert av

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Burtonite Co, 156 Chestnut st Nutley
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SMITH CHEM & COLOR CO, INC, 55 John st — Main 5-0567
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Manufacturers Chem Co, 527 5 av
Marks Chem Wks, 20 W 22 st
MARTIN CO, INC, L, 41 E 42 st — Vanderbilt 6-2380
Maschemeijer, Jr, Inc, A, 43 W 16 st
MATHIESON CHEM CORP, 60 E 42 st — Murray Hill 2-5100
MAXIM CHEMICAL CO, 44 Cliff st — Worth 4-0070
McADAM INC, T E, 125 Broad st — Digby 9-3525
McDomagh & Sons, Wm, 180 Front st
McKESSON & ROBBINS, INC, CHEMICAL DIV, 155 E 44 st — Murray Hill 7-3600
McNulty, Joseph A, 114 Liberty st
MEARL CORP, 153 Waverly pl — Chelsea 2-3680
MEER CORP, 318 W 46 st — Judson 6-0900
Melchers Inc, 79 Madison av
MERCANTILE IMPORT & EXPORT CORP, 21 E 40 st — Lexington 2-2445
Mercantile Metal & Ore Corp, 60 Wall st
MERCHANTS CHEMICAL CO, INC, 60 E 42nd st — Murray Hill 2-8712
MERCK & CO, INC, 161 Sixth av† — Walker 5-8400
METAL & THERMIT CORP, 100 E 42 st — Murray Hill 6-5300
Metallurg, Inc, 120 Bway
Metropolitan Vegetable Oil Co Inc, 2 B'way
Mica Prod Mfg Co, 69 Wooster st
MICHEL & CO INC, M, 90 Broad st — Digby 4-3878
MICHIGAN CHEM CORP, 230 Park av†
Milligan & Higgins Corp, 222 Front st
MILLMASTER CHEMICAL CO, 420 Lexington av — Lexington 2-5959
Mineralite Sales Corp, 90 Pine st
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MONSANTO CHEM CO, 445 Park av† — Plaza 9-8200
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MUTUAL CHEM CO OF AMERICA, 270 Madison av — Caledonia 5-9710
Naphthalene Refineries, Inc, 123 Greene st
NATIONAL CARBON DIV, Union Carbide & Carbon Corp, 30 E 42 st — Murray Hill 7-8000
National Dairy Prods Co, 120 Broadway
National Lead Co, 111 Bway
National Milk Sugar Co, Div of the Borden Co, 350 Madison av
NATIONAL OIL & SUPPLY CO, 50 Church st† — Cortlandt 7-0440
National Pigments & Chem Co, 121 W 42nd st
NATIONAL ROSIN OIL PRODS INC, 1270 6 av — Circle 7-4473
National Starch Products Inc, 270 Madison av
National Zinc Co, 11 Broadway
NATURAL PRODUCTS REFINING CO, 10 E 40th st† — Caledonia 5-1994
Naugatuck Aromatics, Div of U S Rubber Co, 254 4 av
Naval Stores Corp of N Y, 620 Madison av
NEUBERG CO, WM D, 420 Lexington av — Oregon 9-2550
Neva-Moth Corp of America, 30 Rockefeller Plaza
Neva-Wet Corp of America, 30 Rockefeller Plaza
New England Quartz Co of N Y, 450 7th av
New Jersey Zinc Sales Co, 160 Front st
New York Aromatics Corp, 5 Beekman st
N Y & N J Lubricant Co, 292 Madison av
Newerking Chem Co, 125 W 25 st
NEWPORT INDUSTRIES, INC, 230 Park av — Murray Hill 6-7300
NIAGARA ALKALI CO, 60 E 42nd st — Murray Hill 2-8000
Niagara Electro-Chem Co, 350 5th av
NITROGEN PRODS, INC, 450 7 av — Bryant 9-1045
NORDA ESSENTIAL OIL & CHEM CO INC, 601 W 26 st — Watkins 4-7878
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Orbis Prods Corp, 215 Pearl st
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Osborne, E Dewitt, 57 William st
Ox Color Wks, 140 W 42 st
Pacific Chemical Co, 720 Broadway
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Panray Corp, 340 Canal st
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PARSONS IMPORTS & PLYMOUTH ORGANIC LABS, INC, M W, 59 Beekman st Beekman 3-5142
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Paul & Stein Bros, F H, 100 Gold st
Peder Devold Oil Co, Inc, Varick st corner Vandam st
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Pellow Wilson Sons, 111 Broadway
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Penick & Ford Ltd Inc, 420 Lexington av
Permutit Co, The, 330 W 42 st
Perolin Co Inc, 10 E 40 st
Peters Chemical Co, 2575 Ewen av
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PETROLEUM SPECIALTIES INC, 205 E 42 st Oregon 9-2310
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Pomeroy & Fischer Inc, 95 Madison av
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POWELL & CO INC, JOHN, 1 Park av Murray Hill 5-1770
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PRIOR CHEMICAL CORP, 420 Lexington av Lexington 2-9811



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Puerto Rico Alcohol Co, Inc, 370 7th av
Pure Carbonic Inc, 60 E 42 st
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RICHES-NELSON, INC, 342 Madison av, N Y Murray Hill 7-7267
Rimco Trading Corp, 117 Liberty st
River Plate Imp & Exp Corp, The, 405 Lexington av
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Ryland, Inc, H C, 161-163 Water st
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Sandoz Chem Wks Inc, 61-63 Van Dam st
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Schellings & Co, C J, 251 Pearl st
Schieffelin Co, 16-30 Cooper sq
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Southern Dyestuff Corp, 521 5 av
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SUMNER CHEM CO, INC, 52 Wall st Digby 4-3880
SUNDHEIMER CO, HENRY, 168 Park av Murray Hill 5-4314
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Whitman Co Inc, William, 261 5 av
WHITTAKER, CLARK & DANIELS, INC, 260 W Broadway — Walker 5-3749
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Magruder Color Co, Inc, 2385 Richmond Ter — Staten Island
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WILL & BAUMER CANDLE CO, INC, Park st, Syracuse — Syracuse 2-0411
Exolon Co, The — Tonawanda
National Mfg Corp, 171 Fillmore av — Tonawanda
Spaulding Fibre Co Inc, 310 Wheeler st — Tonawanda
GENERAL CHEM DIV, Allied Chem & Dye Corp, 1500 Broad st, Utica — Utica 4-8551
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ROHM & HAAS CO, INC, 1109 Independent Bldg, Charlotte† — Charlotte 3-3201
SHELL CHEMICAL CORP, Liberty Life bldg, Charlotte† — Charlotte 2-2174
SOLVAY SALES CORP, 212 S Tryon st, Charlotte† — Charlotte 3-0538
Southern Dyestuff Corp, P O Box 1045 — Charlotte
STEIN, HALL & CO INC, 224 W 2 st† — Charlotte
WOLF & CO, JACQUES, 100 W Morehead st, Charlotte† — Dial 3-7191
THE DAVISON CHEM CORP, Eastern Fertilizer Div, Fayetteville† — Fayetteville 2564
AMER AGRIC CHEM CO, Box 1139, Greensboro† — Greensboro 3-0173
Morton Chem Co, 2110 High Point rd — Greensboro
NATIONAL ANILINE DIV, ALLIED CHEM & DYE CORP, Jefferson Standard Bldg† — Greensboro 3-2513
VICTOR CHEMICAL WORKS† — Greensboro
VIRGINIA CAROLINA CHEM CORP, P O Box 479, 1028 Jefferson Standard Bldg, Greensboro† — Greensboro 4161
AMER AGRIC CHEM CO, Box 240, Henderson† — Henderson 520
Marlowe-Van Loan Corp, 1511 Byrum st — High Point
Farmers' Cotton Oil Co — Wilson
Cash & Sons, Milton B, 110 Reynolds Bldg, Winston-Salem
ENGLISH MICA CO, THE, Spruce Pine, N C†
AMER AGRI CHEM CO, Box 40, Wilmington† — Wilmington 7715
Verde & Co, E J, 335 Prod Exchange
VIRGINIA-CAROLINA CHEM CORP, Murchison Bldg, Wilmington† — Wilmington 7717

NORTH DAKOTA

Dakota Briquets & Tar Products Inc — Dickinson

OHIO

Akron Chem Co, 255 Fountain st
SINNEY & SMITH CO, 434 Ohio Bldg, Akron† — Jefferson 6154
CABOT INC, GODFREY L, 323 Ohio Bldg† — Akron
DU PONT CO, Organic Chems Dept, 40 E Buchtel av & High st† — Akron
Goodrich Co, The, B F, 1300 Rubber st — Akron
HALL CO, C P, 2510 First National Tower Bldg, Akron — Jefferson 5175
HARWICK STANDARD CHEMICAL CO, 60 S Seiberling st, Akron — Stadium 0481
Herron Bros & Meyer, 516 Ohio Bldg — Akron
JOHNS-MANVILLE SALES CORP, 31 N Summit st† — Jefferson 3137
Kendall, J A, 714 2nd Nat'l Bldg — Akron
MAURICE A KNIGHT, 444 Kelley av† — Akron
MONSANTO CHEMICAL CO, 920 Brown st, Akron† — Hemlock 6191
MONSANTO CHEMICAL CO, Rubber Service Dept, 920 Brown st, Akron† — Stadium 0481
Robinson Clay Product Co, 2nd National Bldg — Akron
STAUFFER CHEMICAL CO, Ohio bldg, Akron† — Jefferson 6154
Stoller, Hugh S, 31 N Summit st — Akron
Union Chem & Supply Co, 353-355 Carroll st — Akron
UNITED CARBON CO, Akron Savings & Loan Bldg† — Franklin 6189
WITCO CHEM CO, 311 Evans Bldg, Akron† — Jefferson 2154
DAVISON CHEM CORP, Akron† — 2297

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PIGMENTS
SUPPLIERS OF
TECHNICAL and COMPOUNDING MATERIALS
The **C. P. Hall** *Co.*
CHEMICAL MANUFACTURERS
Akron • Los Angeles • Chicago

Ohio (cont'd)

Damon Chemical Co, 527 E Cambridge st — Alliance
Aluminum Flake Co, 965 Wooster rd — Barberton
Ferro Chemical Corp, Box 349 — Bedford
Celina Stearic Acid Co, 410 S Ash st — Celina
General Biochemicals Inc, Laboratory Pk — Chagrin Falls
Mead Corp, The — Chillicothe

CINCINNATI

Ace Chemical Co, 24 W 3 st
AMERICAN AGRIC CHEM CO, P O Box A† — Avon 0836
AMERICAN CYANAMID CO, Industrial Chems Div, First National Bank Bldg† — Dunbar 2600
AMERICAN CYANAMID CO, Plastics & Resins Div, First Natl Bank bldg† — Dunbar 2600
Amer Fluresit Co, 4011 Red Bank rd
Amsco Solvents & Chemicals Co, 4619 Reading rd
ARNOLD HOFFMAN & CO, INC, Murray rd & Vine st† — Avon 6554
BARRETT DIV, ALLIED CHEM & DYE CORP, THE, 817 Carr st† — Cherry 8330
Berghausen Chem Co, The, E, 4538 W Mitchell av
Bishopric Products Co, 4413 Eate av
Buchanan Chem Co, C G, 4680 Baker av
Calvert Aniline & Chem Co Inc, 223-227 Walnut st
CARBIDE & CARBON CHEMICAL DIV, Union Carbide & Carbon Corp, 920 E McMillan st† — Avon 4450
CAREY MFG CO, THE PHILIP, 8600 Anthony Wayne av, Lockland, Cincinnati — Valley 3000
CAREY, THE PHILIP MFG CO, 408 Commercial sq† — Cherry 5000
Chemical Novelties Corp, 944 W 5th st
Cincinnati Oil Wks Co, 535 Eggleston av
COLGATE-PALMOLIVE-PEET CO, 2308-10 Carew Tower† — Cherry 6665
COMMERCIAL SOLVENTS CORP, 49 Central av† — Main 4354
DIAMOND ALKALI CO, 525 Walnut st† — Main 0721
DICALITE CO, THE, Keith Bldg†
Drackett Co, 5020 Spring Grove av
Dubois Co, The, Cincinnati
Durbin Co, C M, Traction Bldg
DU PONT CO, Electrochemicals Dept, 2612 Carew Tower† — Parkway 5353
DU PONT CO, Grasselli Chem Dept, Carew Tower
Eagle Picher Company, American Bldg
EMERY INDUSTRIES, INC, 4206 Carew Tower — Dunbar 5700
Federal Color Labs Inc, 4631 Forest av, Norwood
FISCHER INDUSTRIES, INC, Paddock rd & N W R R — Redwood 3120
Formica Insulation Co, 4614 Spring Grove av
Frien & Frien, Inc, 110 E 70 st — Carthage
FRITZSCHE BROTHERS, INC, Carew Tower† — Main 5143
GEIGY COMPANY, INC, 232 E Pearl st† — Main 1709
General Phosphorus Co
GIVAUDAN-DELAWANNA, INC, 514 Main st† — Parkway 8254
Globe Chemical Co, The, Murray Rd & Big Four R R
Grote Co, John J, 3472 Hudson av
Harkness & Cowing Co, Vine & Murray rd
HARSHAW CHEMICAL CO, American Bldg† — Main 4313
Herbert Chemical Co, Vine st & Murray rd
HERCULES POWDER CO, Carew Tower† — Dunbar 6668
HILTON-DAVIS CHEMICAL CO, DIV, 2235 Langdon Farm rd — Elmhurst 1100
Hunnewell Soap Co, 114 W 2 st
Industrial Adhesives, 4210 Airport rd
INNIS SPEIDEN & CO, Carew Tower†
JOHNS-MANVILLE SALES CORP, Central Parkway at Walnut st† — Parkway 5840
King's Ink Co, 131 E Pearl st
MALLINCKRODT CHEM WKS, Central Pkway & Walnut st — Dunbar 6400
MATHIESON CHEM CORP, 334 Dixie Terminal Bldg† — Main 1983
McKESSON & ROBBINS, INC, 225 E 6 st† — Parkway 3121
MERCHANTS CHEM CO INC, 216 Elm st† — Main 1125
MONSANTO CHEM CO, Carew Tower† — Dunbar 1414
National Sales Corp, 31 E 13th st
Natural Sodium Products, Ltd, 305 Walnut st
NEWPORT INDUSTRIES, INC, 30 E Central Pkway† — Cherry 4988

Cincinnati, Ohio (cont'd)

Oil-Kraft, Inc, 3330 Beekman st
PAISLEY PRODUCTS INC, 2951 Kling av† Garfield 2528
Oliver Chem Co, 1918 Freeman av
PALMER SUPPLIES CO, 800 B'way† Parkway 1491
PATENT FUEL & COLOR CORP, CAREW TOWER
PENNSYLVANIA SALT MFG CO, Carew Tower†
PITTSBURGH PLATE GLASS CO, Columbia Chemical Div, 715 Gwynne Bldg† Main 1065
Polymer Chem Co, 6920 Carthage av
Procter & Gamble, Gwynne Bldg
Reardon Industries, 2837 Stanton av
REICHHOLD CHEMICALS, INC, 717 First Nat'l Bk Bldg† Main 1649
Ruehl Paint Co, 1008 Central av
Shepard Chem Co
SHERWIN-WILLIAMS CO, THE, 1104 Race st Main 5685
SINDAR CORP, 514 Main st† Parkway 8254
STEIN, HALL & CO INC, 2906 Carew Tower†
SOLVAY SALES CORP, 3008 Carew Tower† Main 0440
Taylor, Chas, Sons Co, 710 Burns st
U S INDUSTRIAL CHEMICALS, INC, 621 Evans st† Wabash 0958
Valvoline Oil Co, 539 E 5th st
Vejin Inc, 944 W 8 st
VIRGINIA-CAROLINA CHEMICAL CORP, Murray rd & St Bernard† Avon 1905
Werk Co, The M, St Bernard
Werner Drug & Chem Co, 914 Race st
WESTVACO CHEM DIV, Food Machry & Chem Corp, 9th & Main sts† Main 5979
WYANDOTTE CHEMICALS CORP, Michigan Alkali Div, 618 Gwynne Bldg†
Zimmerman Co, C L, N-204 Cincinnati Union Terminal Bldg

CLEVELAND

ADVANCE SOLVENTS & CHEMICAL CORP, 505 Society for Savings Bldg† Cherry 5280
AMERICAN AGRICULTURAL CHEM CO, W Park Station† Clearwater 2900
AMERICAN CYANAMID COMPANY, Leader Bldg† Main 8292
AMERICAN CYANAMID CO, Plastics & Resins Div, Leader bldg† Main 8292
ANSBACHER-SIEGLE CORP†
ARCHER-DANIELS-MIDLAND CO, 2191 W 110 st† Woodvine 4690
Arco Co, The, 7301 Bessemer av
BARRETT DIV, ALLIED CHEM & DYE CORP, THE, 1730 Walworth av† Cherry 5943
Basic Refractories Inc, Hanna Bldg
Braden Sutphin Ink Co, 3800 Chester av
Brush Beryllium Co, 4501 Perkins av
Buckeye Cooperage Co, 3800 Orange av
Byerlyte Corp, 2300 W 3
CAREY, THE PHILIP MFG CO, 5906 Euclid av† Henderson 6500
Case Hardening Service Co, 2281 Scranton av
Cellcote Co, The, Rockefeller Bldg
Chemical Supply Co, The, 3540 Norton rd
Circo Products Co, 6531 Euclid av
Cleveland Electro Metals Co, West 88th st
COLGATE-PALMOLIVE-PEET CO, 1215 National Broadcasting Bldg† Main 8194
COMMERCIAL SOLVENTS CORP, 1260 W 9 st† Cherry 2693
COWLES CHEMICAL CO, THE, 7016 Euclid av Henderson 1-3400
DIAMOND ALKALI CO, 300 Union Commerce Bldg Main 1-6100
DIAMOND ALKALI CO, 633 Pentagon Bldg† Cherry 0736
DIAMOND ALKALI CO, 803 Rockefeller Bldg† Main 1338
DICALITE CO, THE, 629 Euclid av Main 6693
DOW CHEMICAL CO, THE, 2313 Terminal Tower Bldg† Main 8742
Drouillard, J C, Rockefeller bldg
DUCBE, T M & SONS, INC, 419 S Eagle av† Cherry 5075
DU PONT CO, Electrochemicals Dept, 1226 Natl City Bank Bldg
DU PONT CO, Fabrics & Finishes Div, 925 Euclid av†
DU PONT CO, GRASSELLI CHEM DEPT, National City Bank Bldg
DU PONT CO, Photo Prods Dept, Union Commerce bldg†
DU PONT CO, Pigments Dept, Natl City Bank bldg†
Empire Varnish Co, The, 2636 E 76 st
Euclid Chem Co, 1684 Hayden av
FARCHAN RESEARCH LABS, 609 E 127 st Glenville 1-8749
FERRO CHEMICAL CORP, 925 Euclid av Cherry 0296
Fisholiene, Inc, 4510 Train av
Flood Co, 6217 Carnegie av
Forbes Ink Co, The, 1277 W 2 st
FRITZSCHE BROS INC, Standard Bldg† Main 1-3196
Fuller Associate, Ralph L, 616 St Clair av
GENERAL CHEM DIV, Allied Chem & Dye Corp, 850 Euclid av Cherry 0574
General Paint Corp
Gerson Stewart Corp, Lisbon rd
Glidden Co, 1396 Union Trust Bldg
Goodrich Chem Co, B F, 324 Rose Bldg
Grund Inc, Henry L, 406 Bulkley Bldg
Hallemite Mfg Co, 2446 W 25 st
HARSHAW CHEMICAL CO, 1945 E 97th st Cedar 1-6300
Heil & Co, 12901 Elmwood av
HERCULES POWDER CO, 925 Euclid av† Superior 1-4335
Hinz Co, J H, 406 Rockefeller Bldg
Houk & Co, 4538 W 130 st
Hukill Chem Corp, 4614 Prospect av
HUNT CO, PHILIP A, 2432 Lakeside av† Main 2286

Cleveland, Ohio (cont'd)

Ideal Paste & Chem Co, 4518 Detroit av
INNIS, SPEIDEN & CO, INC, 2775 Pittsburgh av† Cherry 6345
Interlake Chem Corp, Coal Chems Div, 1900 Union Commerce Bldg
International Rustproof Corp, 12507 Plover av
JOHNS-MANVILLE SALES CORP, 45 Prospect av, N W† Main 1-5151
JOHNSON, S C & SON, INC, 1220 W 9 st† Cherry 3607
Keystone Chemical Co, Inc, 5713 Euclid av
Kondor Products Corp, 18120 Sloane av
Lake Erie Chemical Works, 2300 Scranton rd
Lawson Inc, W B, 926 Euclid av
Masek Glue Co, 1314 Denison av
Master Builders Co, 7016 Euclid av
MALLINCKRODT CHEM WKS, Guild Hall Bldg Cherry 1-8448
McGean Chem Co, 25 Prospect, N W
McKESSON & ROBBINS, INC, 1382 W 9 st† Main 9121
metalcrete Corp, The, 2400 Mulberry av
MONSANTO CHEM CO, Union Commerce Bldg† Superior 3830
Mooney Chemicals, Inc, 2271 Scranton rd
Murphy's Oil Soap Co, 9505 Cassius av
Naph-Sol Refg Co, 2560 W 3 st
National Carbon Co, Madison av and W 117 st
National Smelting Co, 6700 Grant st
National Solvent Corp, 5761 Jennings rd
North American Fibre Prods Co, The, 2028 Standard Bldg
North American Refractories Co, Nat City & 6 Bldg
Nu Di Products Co, 7201 Wentworth av
Ohio Chemical & Surgical Equipment Co, 1177 Marquette st
OHIO SOLVENTS & CHEMICALS CO, 3470 W 140 st Clearwater 5770
Oilens Core Binder Co, The, 740 W Superior av
PAISLEY PRODUCTS, INC, 7016 Euclid av Express 9070
Palmer Supplies Co, 8905 Lake av
Patterson Labs, T A, 1571 Merwin av
Pennsylvania Refining Co, 2686 Lisbon rd
Phoenix Oil Co, The, 9505 Cassius av
PITTSBURGH PLATE GLASS CO, Columbia Chemical Div, 8649 Hamilton av† Endicott 1330
Puro Chemicals, Inc, 1648 St Clair av
REICHHOLD CHEMICAL, INC, 1902 Terminal Tower Bldg† Cherry 1110
REILLY TAR & CHEM CORP, 3201 Independence rd† Michigan 2222
Republic Steel Corp, Republic Bldg
Ruehl Paint Co, 1008 Central av
Schibley & Ossmann, Inc, 23 Public sq
SHELL CHEM CORP, Union Commerce Bldg† Tower 1-8096
SHERWIN-WILLIAMS CO, 101 Prospect av, N W† Main 4200
SHERWIN-WILLIAMS CO, Pigment Chem & Color Div, 101 Prospect av, N W† Main 4300
Smead & Small, Inc, 1630 Hanna Bldg
Smith Co, Donald McKay, 1505 Broadway
SMITH CO, WERNER G, Div Archer-Daniels-Midland Co, 2191 W 110th st Woodbine 1-4690
SOLVAY SALES CORP, 925 Midland Bldg† Main 0656
Standard Oil Co of Ohio, Prospect & W 2 st
State Mfg Co Inc, The, 3545 E 76 st
Steelblast Abrasive Co, 6536 Carnegie av
SYNTHETIC PRODUCTS CO, 1798 Loraine rd Ivanhoe 7615
Tarbonis Co, The, 4300 Euclid av
Tremco Mfg Co, The, 8800 Kinsman rd
Tropical Paint & Oil Co, 1214 W 70 st
Union Salt Co, E 66th and N Y Cent R R
Universal Paint & Varnish Co, 12418 Euclid av
U S INDUSTRIAL CHEMICALS, INC, Rockefeller Bldg† Prospect 6433
U S STEEL CORP, SUB, 1509 Terminal Tower†
UTILITY COLOR CO, 1531 W 25 st† Cherry 7422
VELSICOL CORP, 1900 Euclid av† Main 6304
Watt Co, A G, 724 Kletha Bldg
Warren Refg & Chem Co, The, 750 Prospect av
WESTVACO CHEM DIV, Food Machry & Chem Corp, Terminal Tower Prospect 0172
White & Co, 1505 B'way
WITCO CHEMICAL CO, 616 St Clair av NE† Cherry 8582
WYODAK CHEMICAL DIV, Federal Fdry Supply Co, 4610 E 71 st Michigan 8125
Xello Co, 2177 W 44 st
Zeen Chem Co, 2000 Elm st, NW
Zip Abrasive Co, 1360 W 9 st

COLUMBUS

American Zinc Sales Co, P O Box 327
BARRETT DIV, ALLIED CHEM & DYE CORP, THE, 428 N Hiton st† Adams 7211
CAREY, THE PHILIP CO, 464 North Park st† Adams 8271
Commercial Paste Co, The, Buttles & Michigan avs
DAVISON CHEM CORP, THE, Welch Chemical Div, 918 Atlas Bldg† Adams 7230-7239
Ironsides Co, Box 1999
JOHNS-MANVILLE SALES CORP, 12 N Third st† Adams 8263
Ruby Chemical Co, 68-70 McDowell st
Shepard Paint Corp, 338 W Broad st
SMITH CHEMICAL CO, THE G FREDERICK, 867 McKinley av Adams 5343
Standard Chem Wks, The

CAREY, THE PHILIP MFG CO, Weakley st at B & O RR† Dayton

Ohio (cont'd)

Industrial Chem Co, 422 Bacon st, Dayton
Davies-Young Soap Co, 705 Albany st, Dayton
JOHNS-MANVILLE SALES CORP, 11 W Monument av, Dayton† Hemlock 1161
Kay & Eas Co, 825 Kiser st, Dayton
Lowe Bros Co, The, 424 E Third st Dayton
New Wrinkle Inc, Dayton
Gibbs Paint Mfg Co, The, 1456 Chardon rd, Euclid
Mason Color & Chem Wks, Inc, 206 B'way E Liverpool
UNITED CLAY MINES CORP, 505 Maple st, E Liverpool† Main 143
Wahl Refractory Prods Co, The, Fremont
Gibsonburg Lime Products Co Gibsonburg
Cranston, John, Box 154 Ironton
Ironton Fire Brick Co Ironton
Siegel Chems, P O Box 284 Ironton
International Rustproof Corp, 12507 Plover av Lakewood
Starr Mfg & Chem Co, S Shawnee st Lima
So-Lo Works Inc, Loveland
Clifton Products Inc, P O Box 186, Painesville
DIAMOND ALKALI CO, Pure Calcium Prods Div, P O Box 407, Painesville Painesville 3512
DIAMOND ALKALI CO, Cleveland Tr Bldg† 4569
Pomeroy Salt Corp, Box 587 Pomeroy
Carlisle Chem Wks, 510 Reading rd Reading
General Phosphorus Co Reading
Elliott Co, Springfield
FELTON CHEMICAL CO, INC, 1209 Buckingham st, Sandusky† Main 93
Moores Lime Co, The, P O Box 878 Springfield

TOLEDO

ARCHER-DANIELS-MIDLAND CO† Taylor 3950
BARRETT DIV, ALLIED CHEM & DYE CORP, THE, 2762 Frost st† Pontiac 3488
Berman Chem Co, 712 Superior st
DEAN CHEMICALS, INC, 524 Smith st† Main 3601

Jennison-Wright Co, The, Kreolite Bldg Toledo
JOHNS-MANVILLE SALES CORP, 1220 Madison av† Adams 4196
PAISLEY PRODS INC, 607 Michigan st† Main 2104
Plaskon Div, Libbey Owens Ford Glass Co, 2112-24 Sylvan av
Sinclair Mfg Co, Brown & Woodland av
Superior Metal Powders Corp, 1011 Pelee st

Barium & Chemicals, Inc, Willoughby
Ohio Salt Co, The, Wadsworth
Ohio Hydrate & Supply Co Woodville
Wooster Sealkote Co, S Spruce st Wooster
Hammond, W A, Drierite Co, 120 Dayton av Xenia, O
JOHNS-MANVILLE SALES CORP, 211 N Champion st, Youngstown† 7-5320
Mahoning Paint Corp, 653 Jones st, Youngstown

OKLAHOMA

Phillips Chemical Co Bartlesville
PHILLIPS PETROLEUM CO, Chem Prods Dept, Bartlesville 6600
National Zinc Co, Inc Bartlesville
Allied Materials Corp, Braniff Bldg Oklahoma City
Anderson-Prichard Oil Corp, APCO Tower Oklahoma City
B & T Chem Co, 129-131 E Main st Oklahoma City
DIAMOND ALKALI COMPANY, 301 South Compress st† 3-4473
DU PONT CO, Electrochemicals Dept, 203 S Compress st† Oklahoma City
THOMPSON-HAYWARD CHEM CO, 828 W 2 st† Oklahoma City 3-6383
ATLAS POWDER CO, West A st, P O Box 158, Pichert Picher 87
UNITED CARBON CO, INC, Sayre†

TULSA

BARECO OIL CO, P O Box 2009 3-5174
Chemical Prods Inc, 501 W 1 st
DU PONT CO, Electrochemicals Dept, 26 N Guthrie st†
DU PONT CO, Explosives Dept, Kennedy bldg†
DU PONT CO, Organic Chems Dept, 1811 S Baltimore av†
JOHNS-MANVILLE SALES CORP, 1701 E 7 st† 3-9181
Mahoning Mining Co, Box 449
Mid-Continent Petroleum Corp, Mid-Continent Bldg
DOW CHEMICAL CO, THE, 2313 Terminal Tower Bldg†
Ozark-Mahoning Co, 310 W 6 st
THOMPSON-HAYWARD CHEM CO, 36 N Guthrie† Tulsa 4-6169
Tulsa Chemicals Co, Box 449
Vaughn Chem Co, 1102 E 3 st

OREGON

PORTLAND

STAUFFER CHEMICAL CO, P O Box 68, North Portland† University 3675
AMERICAN RESINOUS CHEM CORP, P O Box 2094† Vermont 7888
ARCHER-DANIELS-MIDLAND CO, 2889 N W Sherlock av† Beacon 7314

Portland, Oregon (cont'd)

ATLAS POWDER CO, Pacific Bldg† Beacon 2845
CHAPMAN CHEM CO, Terminal Sales Bldg†
COMMERCIAL SOLVENTS CORP, 2133 N W York st, Portland† Murdock 1132
FELTON CHEMICAL CO, INC, 121 N W 5 av†
Flox Co
GEIGY COMPANY, INC, 1416 N W Hoyt st† Broadway 4167
GENERAL DYESTUFF CORP, Terminal Sales Bldg, Portland† Beacon 7364
HERCULES POWDER CO, P O Box 3939† Broadway 3535
JOHNS-MANVILLE SALES CORP, 711 S E Alder st† Empire 4109
McKESSON & ROBBINS, INC, 630 N W 14 st† Broadway 7671
Miller Prods Co, Ft of S W Caruthers st
MONSANTO CHEM CO, 421 S W 6 av† Broadway 2549
NATIONAL ANILINE DIV, ALLIED CHEM & DYE CORP, 730 W Burnside† Beacon 1353
Pacific Carbide & Alloys Co
PENNSYLVANIA SALT MFG CO, 6430 N W Front st†
Portland Gas & Coke Co, Public Service Bldg
SHELL CHEMICAL CORP, 1220 S W Morrison st† Atwater 7321
SHERWIN-WILLIAMS CO, THE, P C & C Div, 1300 W Everett† University 3887
STAUFFER CHEMICAL CO† University 3887
STEIN, HALL & CO INC, 717 Lewis Bldg†
STERWIN CHEMICALS INC, 935 N W 12 av† Capital 7271
TROJAN POWDER CO, 522 S W 5 av† Atwater 9375
U S INDUSTRIAL CHEMICALS, INC, 15th & Johnson sts† Broadway 4564
Van Waters & Rogers Inc, 3950 N W Yeon av
Western Chemicals, Inc, Ft S W Gibbs st
Zehrung Chem Co, 2201 N W 20 av

White Rose Chem Co, P O Box 502, Salem Salem

PENNSYLVANIA

FERGUSSON CO, ALEX C, Gordon & Franklin sts† Allentown 7780
Lehigh Valley Chem Co, 1103 N Quebeck st Allentown
TROJAN POWDER CO, Allentown Allentown 4-5201
Western Penna Chem Co Inc, P O Box 703 Altoona
American Chem Paint Co Ambler
Keasbey & Mattison Co, Butler av Ambler
Penn Paint & Filler Co Antes Fort
Bethlehem Steel Co, 701 E 3 st Bethlehem
PRINCE MFG CO, Bowmanstown Palmerton 3172
DU PONT CO, Explosives Dept, Terminal bldg† Bradford

it's too late

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330 West 42nd Street, New York 18, N. Y.

Pennsylvania (cont'd)

Oswayo Chemical Co — Bradford
Garco Products, Inc, Box 351 — Butler
Pennsylvania Refining Co — Butler
Petroleum Solvents Co of Penna — Butler
PENNA INDUSTRIAL CHEM CORP, 130 State st, Clairton — Clairton 5-4600
Quaker Chemical Products Corp, Elm, Lime & Sandy sts — Conshohocken
Reilly-Whitman-Walton Co, P O Box 188 — Conshohocken
CORNWELL CHEM CORP, Cornwells Heights — Cornwells 6302
Chemical Mfg & Distri — Easton
Williams & Co, C K — Easton
National Powder Co — Eldred
Electro Chem Supply & Engr Co, 752 Broad st — Emmaus
JOHNS-MANVILLE SALES CORP, Commerce Bldg, Erie† — 22-594
Ruberoid Co, The, 143 E 16th st — Erie
United Oil Mfg Co, 1429 Walnut st, Erie
Washington Chem Co, F T, Ft Washington
Fels, Mitchel, 3744-6-8 E Ashmead st, Germantown
Nissen Co, John P — Glenside
Sulphur Prods Co Inc, Greensburgh, Pa
Gross Drug Co, 100 Market st — Harrisburg
Howard, Geo E, Riverview Manor — Harrisburg
Riverside Paint & Putty Co, 7 & Antoine sts, Harrisburg
HERCULES POWDER CO, 8 W Broad st, Hazleton† — 124
Jamestown Paint & Varnish Co — Jamestown
Plastic Metals Div, Nat'l Radiator Co, The, 175 Bridge st — Johnstown
Armstrong Cork Co, 985 Concord av, Lancaster
Perkins Glue Co, 602 Cannon av — Landsdale
Bates Chemical Co, Scottdale rd — Lansdowne
OPALCO LAB, THE, 20 E Pittsburgh Blvd, McKeesport — McKeesport 4-4278
Bishop & Co, J, Platinum Works, 12 Channing av — Malvern
ATLAS MINERAL PRODS CO, THE, Mertztown — Topton 37
Eaton-Dikeman Co — Mt Holly Springs
Keystone Filler & Mfg Co — Muncy
Whitmoyer Labs Inc, 19 N Railroad st — Myerstown
Sprout Waldron & Co Inc, 1221 Sherman st, Muncy
Ceramic Color & Chemical Mfg Co — New Brighton
GENERAL MAGNESITE & MAGNESIA CO, P O Box 671, Norristown, Plymouth Meeting 2330
Taylor Fibre Co, P O Box 470 — Norristown
Atlas Asbestos Co, North Wales
Synthane Corp — Oaks
Quaker State Oil Refg Corp — Oil City
ANSUL CHEMICAL CO, Lincoln Highway, Paoli† — Paoli 2483
Pennsylvania Coal Products Co, Petrolia

PHILADELPHIA

Adler, A & Son, 1041 Front st, N
Ajax Metal Co, 46 Richmond st
Amalgamated Chemical Corp, Rorer & Ontario sts
Amer Anilene & Extract Co Inc, F & Venango sts
AMERICAN CYANAMID CO, Industrial Chems Div, 401 N Broad st† — Bell-Lombard 3-6422
AMERICAN CYANAMID CO, Plastics & Resins Div, 401 N Broad st† — Bell-Lombard 3-6422
Amer Distilling Co, Delaware av and Mifflin st
AMERICAN DYEWOOD CO, 50 North Front st† — Market 3614
AMERICAN MINERAL SPIRITS CO, 3701 N Broad st† — Radcliff 3540
AMERICAN RESINOUS CHEM CORP, 2606 N 5 st† — Regent 9-1475
American Solder & Flux Co, 2152-54 E Norris st
ANDREWS SALES CO, W R E, 1505 Race st — Rittenhouse 6-3874
ANSUL CHEM CO, Lincoln-Liberty bldg, Broad & Chestnut sts†
Apex Chemical Co, Inc, 1089 Drexel Bldg
ARCHER-DANIELS-MIDLAND CO, 12 S 12 st† — Walnut 2-2350
ARNOLD HOFFMAN & CO INC, 1400 S Pennsylvania sq — Locust 7-6475
Atlantic Refg Co, Box 7258
ATLANTIC REFINING CO, 260 S Broad st — Pennypacker 5-2345
Atlas Adhesives, Leverington av & Flat Rock rd
ATTAPULGUS CLAY CO, 210 W Washington sq — Walnut 2-5720
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BOWER CHEMICAL MFG CO, HENRY, Gray's Ferry rd & 29 st — Howard 5-2100
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CIBA CO INC, 1220 Arch st† — Locust 4-1303
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Drug Labs, 408 N 3 st
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Loos & Dilworth, Inc, Swanson & Kentlworth sts
Machner & Son, Wm, 1538 W Clearfield st
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MEYER & SONS, 4321 N 4 st Michigan 4-3460
Mifflin Chemical Co, Delaware av & Mifflin st
MONSANTO CHEM CO, 723 Widener Bldg† Locust 4-0247
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Naylee Chem Co, 8001 Frankford av
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North Carolina Feldspar Corp — Erwin
Palmyra Lime Products Co, P O Box 187 — Clarksville
Southern Mica Co, Fairview & Steel sts — Johnson City
TENNESSEE EASTMAN CORP, Kingsport — Kingsport 3300
ATLAS POWDER CO, Hamilton Nat'l Bank Bldg, Knoxville† — 2-2147
Cruse & Co, Fred, Box 2202 — Knoxville
JOHNS-MANVILLE SALES CORP, Hamilton Nat'l Bank Bldg, Knoxville† — 3-6210
Williams Lime Mfg Co, 905 Hamilton Bank bldg — Knoxville
Fleet Oil Co — La Follette

MEMPHIS

AROMATIC PRODUCTS, INC, 364 Front st† — Memphis 5-3912
Bruce Co, E L, Box 397
CHAPMAN CHEM CO, Dermon Bldg — 37-8316
COLGATE-PALMOLIVE-PEET CO, Room 1225 Sterick Bldg† — 8-1600
DIAMOND ALKALI COMPANY, 668 S Main st† — 5-3546
HEYDEN CHEMICAL CORP, 1199 Warford st†
Ideal Chemical & Supply Co, P O Box 5918
Manley, Jr, W C, Falls-Bldg
McKESSON & ROBBINS, INC, 919 Gervais st† — 8-2233
Memphis Cotton Linter Co, McCall Bldg
NEWPORT INDUSTRIES INC, 1302 Sterick Bldg† — Memphis 5-8488
Smith Co, Harry C, 556 Suzette st, P O Box 447
Southern Shellac Co, P O Box 447
Sullivan Co, The, 212 E Tregg av
THOMPSON-HAYWARD CHEM CO, 403 N Main† — Memphis 5-7561
VIRGINIA-CAROLINA CHEM CORP, Box 5248† — 6-6216
DAVISON CHEM CORP, 54 av North† — 7-6334

TENNESSEE PRODUCTS & CHEMICAL CORP, Nashville — Nashville 5-8333
VICTOR CHEM WORKS, 900 Warner Bldg, Nashville† — Nashville 9-3416

TEXAS

West Texas Cottonoil, Div of Western Cottonoil Co — Abilene
Amarillo Cotton Oil Co — Amarillo
Austin White Lime Co, Box 53 — Austin
CELANESE CORP OF AMER, P O Box 148† — Bishop
UNITED CARBON CO, INC† — Borger
PENNSYLVANIA SALT MFG CO† — Bryan
AMERICAN MINERAL SPIRITS CO, Port & Summers sts† — Corpus Christi 5253
Southern Alkali Corp — Corpus Christi
THOMPSON-HAYWARD CO, 523 Fitzgerald, Corpus Christi† — Corpus Christi 2-9233
UNITED CARBON CO, INC† — Corpus Christi

DALLAS

AROMATIC PRODUCTS INC, 5307 Monticello av† — Tenison 3-6873
ATLAS MINERAL PRODUCTS CO, THE

Dallas, Tex. (cont'd)

CAREY, THE PHILIP MFG CO, 2220 S Harwood st† — Harwood 2398
Chemical Engineering Corp, Box 1076
COLGATE-PALMOLIVE-PEET CO, 1715 Tower Petroleum Bldg† — Central 9013
Dallas Animal By-Products Co, 5008 Holmes st
DIAMOND ALKALI COMPANY OF TEXAS, Gulf Coast Chemical Division, South Lamar & Lonway sts† — Harwood 7506
Dixie Disinfecting Co, 923 S Harwood st — Dallas
DU PONT CO, Electrochemicals Dept, 3 & Berich sts†
DU PONT CO, Finishes Div, 2607 Live Oak st†
FRITZSCHE BROS INC, 2208 Main st† — Riverside 4265
HERCULES POWDER CO, Gulf State bldg† — Riverside 3418
HUNT CO, PHILIP A, 10 D Santa Fe bldg, 2 Unit† — Central 7111
Industrial Adhesive Co, 713 W Davis st
JOHNS-MANVILLE SALES CORP, 2107 Griffin st† — Central 7143
McKESSON & ROBBINS, INC, 611 N Field st† — Central 1363
PAISLEY PRODS INC, 1410 Main st† — Central 4740
ROHM & HAAS CO, 209 Browder st†
Southwest Chemical Co, 1220-22 Trunke av
Southwest Sales Co, Inc, 2412 Coombs
STERWIN CHEMICALS INC, 2½ Highland Park Village† — Lakeside 4348
THOMPSON-HAYWARD CHEM CO, P O Box 6226 — Central 7311

Trinity Cotton Oil Co, 701 Belleview st — El Paso
United Chemical Co, Box 988
Atlas Lime Co, Inc, The, 303 N Cotton av
COLGATE-PALMOLIVE-PEET CO, Box 968†
DENVER FIRE CLAY CO, 209 Mills Bldg, El Paso†
American Gold & Silver Refining, 1318 Arcade Bldg — Ft Worth
ANSUL CHEMICAL CO, 1010 Jennings st, Fort Worth† — 3-1733
Gillam Soap Works, 200 NE 21st st — Ft Worth
Rector Well Equipment Co, Inc, Ft Worth Nat'l Bk Bldg — Fort Worth
DOW CHEMICAL CO, THE, Texas Div, Freeport† — Gonzales
Gonzales Cotton Oil & Mfg Co — Harlingen
Coastal Chemical Co, Inc, 421 N "C" st

HOUSTON

AMERICAN CYANAMID CO, Industrial Chems Div, 1213 Capitol av†
AMERICAN CYANAMID CO, Plastics & Resins Div, 1213 Capitol av† — Capitol 7858

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

Bute Co, James, P O Box 1779
CHAPMAN CHEM CO, 4018 Bluebonnet av† — Jackson 2-6179
Chem Labs, 1302 Nance st
CONSOLIDATED CHEM INDUSTRIES, INC, 640 Mellie Esperon Bldg CA 2371
DIAMOND ALKALI CO, 1005 Main st† — Wentworth 3-4691
DIAMOND ALKALI CO OF TEXAS, Gulf Coast Chemical Div† — Fairfax 7339
THE DOW CHEMICAL CO, 2205 Commerce Bldg† — Charter 4-3506
DU PONT CO, Electrochemicals Dept, 2812 Center st†
DU PONT CO, Grasselli Chems Dept, Esperon bldg†
DU PONT CO, Organic Chems Dept, Esperon bldg†
DU PONT CO, Pigments Dept, 921 Main st†
Duval Texas Sulphur Co, Esperson Bldg
FREEPORT SULPHUR CO, 212B Gulf Bldg† — Preston 1697
GENERAL CHEM DIV, Allied Chem & Dye Corp, 3909 Capitol av† — Preston 1697
HARSHAW CHEM CO, INC, 6622 Supply Row† — Wentworth 6-1628
Humble Oil & Ref Co, Humble Bldg
JOHNS-MANVILLE SALES CORP, 3115 Blodgett st† — Justin 2482
KAISER ALUMINUM & CHEM SALES, INC, City Natl Bank Bldg† — Atwood 0418
MAHER & CO, JOHN F, Box 381 — Capitol 9196
MATHIESON CHEM CORP, 1402 2nd Nat Bk Bldg† — Preston 8154
McCARTHY CHEMICAL CO, Shell Bldg — Pr 7204
McKESSON & ROBBINS, INC, 3122 Leeland av† — Atwood 8-7636
Merichem Co, The, 3215 Harrisburg
Milwhite Co, 801 Cotton Exchange bldg
MONSANTO CHEM CO, 904 City Nat'l Bank Bldg† — Atwood 6421
Nyotex Chemicals Inc, 348 Mellie Esperon bldg
Rector Well Equpt Co Inc, 2215 Commerce
SHELL CHEM CORP, P O Box 2099† — Capitol 1181
SHERWIN-WILLIAMS CO, 1400 Main st† — Fairfax 2139
STAUFFER CHEMICAL CO, M & M Building† — Charter 4-1876
TEXAS SOLVENTS & CHEMS CO, 8501 Market st — W 6-9681
TEXOIL SERVICE CO, 908 M & M Bldg — Preston 8271
THOMPSON-HAYWARD CHEM CO, 2600 Crockett st† — Charter 2466
UNIVERSAL MFG CO, Box 2427 — Wentworth 7475
VIRGINIA SMELTING CO, 1006 Washington av† — Preston 2381
Vinco Prods Co Inc, 1404 Sterling Bldg

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Houston, Tex. (cont'd)

WITCO CHEMICAL CO, 1 N Main st† — Blackstone 3291

Heinz, C E, P O Box 661 — Ilano
ARCHER-DANIELS-MIDLAND CO, Kenedy† — 236
Texas Mining & Smelting, Div of Nat Lead Co, P O Box 559 Laredo
Longview Cotton Oil Co — Longview
Marshall Cotton Oil Co — Marshall
Frontier Chem Co, P O Box 1546 — Midland
Nacogdoches Cotton Oil Co — Nacogdoches
TEXAS GULF SULFUR CO† — Newgulf
Southland Cotton Oil Co — Paris
COLGATE-PALMOLIVE-PEET CO, 709-719 Milam Bldg San Antonio† — Fannin 2132
JOHNS-MANVILLE SALES CORP, 404 W Nueva st† — Cathedral 6143
SHELL CHEMICAL CORP, Shell Bldg, P O Box 2099† — Capital 1181
Star Chemical Co, Inc, 646 W Martin st — San Antonio
THOMPSON-HAYWARD CHEMICAL CO, P O Box 126, San Antonio† — Fannin 7377
McKESSON & ROBBINS, INC, 1110 Hoefgen av, San Antonio† — Kenwood 5131
Visco Prods Co Inc, 1404 Sterling Bldg — San Antonio
Seguin Cotton Oil Co — Seguin
East Texas Cotton Oil Co — Terrell
STAUFFER CHEMICAL CO, Box 431† — Weslaco

UTAH

McKESSON & ROBBINS, INC, 161 24 st, Ogden† — 8834
PAISLEY PRODUCTS INC, 3571 Grant av, Ogden† — Dial 2-9627
REILLY TAR & CHEM CORP, P O Box 286, Provo† — Provo 145
ATLAS POWDER CO, Continental Bk Bldg, Salt Lake City† — 4-7064
COLGATE-PALMOLIVE-PEET CO, 1014 Boston Bldg† — 5-5665
DENVER FIRE CLAY CO, 225 S W Temple† —
HERCULES POWDER CO, 136 S Main st, Salt Lake City† — 4-5514
JOHNS-MANVILLE SALES CORP, 403 Dooly Block† — 4-2407
Klemm Inc, Emil, 1946 S Main st — Salt Lake City
SHARPLES CHEMICALS INC, 1826 Herbert av† —
U S Smelting, Refining & Mining Co, Newhouse Bldg — Salt Lake City
Utah Lime & Stone Co, The, 203 Continental Bank Bldg — Salt Lake City
Utah Sulphur Industries — Sulphurdale
VAN AMERINGEN-HAEBLER INC, 520 W 2nd South st† — Salt Lake City
Western Natural Prods Co, 260 S 6th West st — Salt Lake City
Eastern Magnesia Talc Co, 206 Bank st — Burlington

VIRGINIA

AMERICAN AGRIC CHEM CO, P O Box 589, Alexandria† — Alexandria 9139
American Chlorophyll Co — Alexandria
Hafleith & Co — Buchanan
Blue Ridge Talc Co, Inc, Box 7 — Henry
Virginia Chem Corp, Piney River — Nelson County
AMERICAN AGRIC CHEM CO, P O Box 390, Berkley Station, Norfolk† — Berkley 972
Jette, Joseph C, Board of Trade bldg — Norwalk
Priddy & Co Inc, Flat Iron bldg — Norwalk
REILLY TAR & CHEM CORP, P O Box 375, Norfolk† — Berkley 940
MERCK & CO, INC, Elkton† —
Rowe & Co, 723 W 26 st — Norfolk
Taylor Salt & Chem Co, Cook av & Calvert st — Norfolk
VIRGINIA-CAROLINA CHEM CORP† — Norfolk
Weaver Tankage Corp, The, Bank of Commerce Bldg — Norfolk
American Pigment Corp — Pulaski
CARBIDE & CARBON CHEMICALS DIV, Union Carbide & Carbon Corp, 2905 Barton av, Richmond† —
CAREY, THE PHILIP, MFG CO, 1805 High Point av† — 6-1972
Christian Company, The, 1417 State Planters Bank Bldg, Richmond —
COLGATE-PALMOLIVE-PEET CO, 1235 Cent Natl Bldg† — 2-3856
Gunn & Co, F V, 1422 E Carey st — Richmond
Haskell Chem Co Inc, 1925 N Hamilton st — Richmond
Phippe & Bird, 208 S Sixth st — Richmond
JOHNS-MANVILLE SALES CORP, Main & 9 sts† — Richmond 2-4041
Reynolds Metals Co, Inc, Federal Reserve Bk Bldg — Richmond
Tobacco By-Prods & Chem Corp, 401 E Main st — Richmond
Tyler Oil & Chemical Corp, 844 Hermitage rd — Richmond
VIRGINIA-CAROLINA CHEM CORP, 401 E Main st, Richmond — Richmond 2-0113
Virginia Carolina Laundry Supply Corp, 904-06 N 17 st — Richmond
Richmond Printing Ink Co, 104 N 14 st —
WYODAK CHEMICAL CO, 1717 Summit av† — 5-2116
Riverton Lime & Stone Co, Inc — Riverton
ATLAS POWDER CO, 811 7 st, N E, Roanoke† — 3-2145
McKESSON & ROBBINS, INC, 365 W Salem av, Roanoke† — 7383
AMERICAN CYANAMID CO, Agricultural Div, Shenandoah Valley Bank bldg, Winchester — Winchester 3609
Suffolk Oil Mill, Inc, E Bank st, Box 736 — Suffolk
VIRGINIA SMELTING CO, West Norfolk — Portsmouth 7-3441

WASHINGTON

Puget Sound Pulp & Timber Co — Bellingham

SEATTLE

AMERICAN CYANAMID CO, Industrial Chems Div, 2203 First av, S† — Seneca 0335
AMERICAN CYANAMID CO, Plastics & Resins Div, 2203 1 av, S† — Seneca 0335
American-Marietta Co, Adhesives, Resin & Chem Div, 3400 13 av S W —
American Tar Co, Foot of Wallingford av —
Associated Lead & Zinc Co, 2800 16 av, S W — Harbor Island
ATLAS MINERAL PRODUCTS CO, THE —
ATLAS POWDER CO, Joseph Vance Bldg† — Main 5110
CARBIDE & CARBON CHEMICALS CORP, 2901 First av, S† — Main 4343
Carbon Dioxice & Chem Co, 1431 1st Av Bldg —
CAREY, THE PHILIP MFG CO, 820 Fairview Pl† — Main 2900
Cascade Chem Co, 3217 17 av West —
CASEIN CO OF AMERICA, Div of The Borden Co, 701 Myrtle st† — Rainier 3700
COLGATE-PALMOLIVE-PEET CO, 712 Lloyd Bldg† — Main 3321
Colonial Chem Co, 4014 28 st, S W, —
COMMERCIAL SOLVENTS CORP, 4000 First av, S† — Seneca 2100
Corl Chemical Co, 2605 Second av —
DOW CHEMICAL CO, The, 1702 Textile Tower† — Main 3730
DU PONT CO, Explosives Dept, 701-705 2nd av† —
GIVAUDAN-DELAWANNA, INC, 2607 Second av† —
JOHNS-MANVILLE SALES CORP, 777 Thomas st† — Elliott 8070
KAISER ALUMINUM & CHEM SALES, INC, Hoge bldg — Main 1001
Laucks, I F, Inc, 314 Maritime Bldg —
Liquid Carbonic Pacific Corp Ltd, 5021 Colorado st —
Manufacturers Mineral Co, P O Box 3144 —
McKESSON & ROBBINS, INC, 419 Occidental av† — Elliott 4343
Miller & Co Inc, Carl F, 1217 6 av S — Main 4205
MONSANTO CHEM CO, 911 Western av —
Northwest Baker Ice Machine Co, 1310 Airport way —
Northwest Lead Co, 2700-16 av S W —
REICHHOLD CHEMS INC, Pacific Northwest Div, P O Box 3363† —
REILLY TAR & CHEM CORP, 855 Central Bldg† — Seneca 1191
SHERWIN-WILLIAMS CO, THE, P C & C Div, 1048 Sixth av, S† —
SINDAR CORP, 2607 2nd av† —
U S INDUSTRIAL CHEMICALS, INC, 1703 4th av, S† — Elliott 1854
VAN AMERINGEN-HAEBLER INC, 1703 6 av S† —
Washington Color & Chem Co, 815 Republican st —

ATLAS POWDER CO, Old Nat'l Bank Bldg, Spokane† — Main 4733
CHAPMAN CHEM CO, 119 N Post st† — Spokane
DU PONT CO, Explosives Dept, Riverside av & Stevens st† — Spokane
McKESSON & ROBBINS, INC, 160 S Wall st, Spokane† — Riv 2141
Miller & Co, Carl F, 80c Pacific av — Spokane
Western Soap Co, & Sales Co, Sinto & Ash sts — Spokane
GENERAL CERAMICS & STEATITE CORP, 417 Tacoma Bldg, Tacoma† — Main 4321
HOOKER ELECTROCHEMICAL CO, Tacoma† — Broadway 1215
National Soap Co, 357 S 25 st — Tacoma
PENNSYLVANIA SALT MFG CO OF WASHINGTON, 2901 Taylor Way† — Tacoma
Waterside Milling Co — Tacoma
DU PONT CO, Granelli Chems Dept, 123 W Yakima av† — Yakima
GENERAL CHEM DIV, Allied Chem & Dye Corp, Box 1468, Yakima† — 4712
State Product Co, 315 S 4th av — Yakima

WEST VIRGINIA

Belle Alkali Co — Belle
REILLY TAR AND CHEM CORP, Box 1903 Belle† — Belle 97-181
AMERICAN CYANAMID CO, Explosives Div, 130 Brodmann bldg, Bluefield† — 7316
UNITED CARBON CO, INC, P O Box 1913, Charleston — Capital 21-161
JOHNS-MANVILLE SALES CORP, May Bldg, Charleston† — 25-231
Preiser & Co, B, 416 W Washington st — Charleston
UNITED CARBON CO INC, P O Box 1913, Charleston — 2-1161
Viking Distributing Co, Hanawha Valley Bldg — Charleston
Virginian Gas & Oil Co, Kanawha Valley Bldg — Charleston
Williamson Paint Mfg Co, 827 Watts st — Charleston
Am Calcium Chloride Works — Hartford
Liverpool Salt & Coal Co — Hartford
Cabell Chemical Co, 101 22 st — Huntington
DU PONT CO, Explosives Dept, 4 av & 9 st† — Huntington
Guyan Color & Chem Wks, P O Box 1088 — Huntington
Miller Paint & Mfg Co, Box 1852, 641 Jackson st — Huntington
Standard Ultramarine Co, 24 & 5 av — Huntington
Dickinson & Co, J Q — Maiden
Ohio River Salt Corp — Mason
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Wheeling Steel Corp, Wheeling Steel Corp Bldg Wheeling

WISCONSIN

MERCHANTS CHEMICAL CO, INC† Appleton
PENNSYLVANIA SALT MFG CO, 200 E College† Appleton
Western Condensing Co, 935 E John st Appleton
Groth & Son, John F, Cedarburg
Cedarburg Lime Co, Box X Cedarburg
Presto Color Company Cudahy
Northwoods Prods Co Florence
Koos & Son Co, N S, 4610-13 Court Kenosha
Ohio Chem & Mfg Co, The, 1400 E Washington av, Madison Kenosha
Ohio Chem Mfg Co, The, 1902 E Johnson st Madison
Solvit Chem Co Inc Madison
Allwood Lime Co, 901 York st Manitowoc
Heresite & Chemical Co, 822 S 14 st Manitowoc
ANSUL CHEMICAL CO, Marinette Marinette 216

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AMER MINERAL SPIRITS CO, 1719 So 43rd st† Greenfield 2050
ARCHER-DANIELS-MIDLAND CO, P O Box 603† Marquette 3175
ARCHER-DANIELS-MIDLAND CO, Wm O Goodrich Div, P O Box 603† Kilbourn 0402

Benlo Chems, 6515 W State st
Carpenter Bros, Inc, 342 N Water st
Coddington Mfg Co, E D, 5024 N 37 st
COLGATE-PALMOLIVE-PEET CO, 1132 S Barclay st†
Corona Chemical Div, Pittsburgh Plate Glass Co, 235 E Pittsburgh av
Cream City Chemical Works, 1946 S Kinnic av
Crown Chemical Corp, 2216 N Teutonia av
Diamond Ink & Adhesive Co, 216 S 2nd st
Donald Sales & Mfg Co, 6601 W State st
Dryburgh & Sons, Inc, 106 E Mason st
DU PONT CO, Grasselli Chem Dept, Plankinton Bldg†
Ferrubron Metal Paint Co, 528 W Highland av
Findley Co, W, Pemberton st N 30 st
GENERAL CHEMICAL WISCONSIN CORP, 205 S 16 st† Mitchell 3510
Goodrich Co, Wm O, 3003 W Hopkins av
Harnischfeger Corp, 4595 W National av
HERCULES POWDER CO, 5228 N Hopkins st† Hilltop 5-4000

Milwaukee, Wis. (cont'd)

Hydrite Chem Co, 621 S 12th st
Iding, M P, Disc Grinding Compound Co, Inc, The, 3440 W Pierce st
Industrial Oil Co, 1627 S 44 st
Industrial Service Labs, 710 W National av
JOHNS-MANVILLE SALES CORP, 757 N Broadway† Marquette 8-6220
Kepec Chem Corp, P O Box 782
Lakeside Labs Inc, 1707 E North av
Lavo Co of America, 300 N 7th st
Lewis Labs Inc, Paul, 4253 N Port Washington rd
Manistee Salt Co, 236 S 7th st
Master Chem Co, 1950 W Fond-du-Lac av
MERCHANTS CHEM CO INC, 100 S Barclay st† Mitchell 5-7909
Michigan Quartz Silica Co, 1529 E Hartford av
Midwest Chem Co, 1661 N Prospect av
Milwaukee Chem Co, 204 N B'way
Milwaukee Solvay Coke Co, 311 E Greenfield av
O'Neil Duro Co, P O Box 1166
Ricketson Mineral Color Wks, 229 E Wisconsin av
Rogers Chem Labs, Thomas T, 4135 South 6th st
SMITH CO, THE WERNER G, (Div of Archer-Daniels-Midland Co), 3003 W Hopkins rd† Kilbourn 0402
Solar Corp, 944 W Bruce st
Standard Chemical Co, Inc, 223 E Detroit st
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Johnson Co, S C, 1525 Howe st Racine
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Valders Lime & Stone Co Valders
PORTZ, FRED, P O Box 493, Waukesha Franklin 4552
NORTHWESTERN CHEM CO, 1263 N 70th st, Wauwatosa Bloomsound 1700
Wyoming Wyodak Chemical Co Upton
Waterloo Prods Co, West Allis, Wis

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Chemicals and Raw Materials

An alphabetical list of chemicals and natural raw materials, with their formulas uses, physical and chemical properties, as well as a buyer's guide of manufacturers and distributors.

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

ABRASIVES FOR DETERGENTS, POLISHES, etc.

Materials with gentle abrasive action which clean or polish without marring the smooth surface of brass, silver and other soft metals, enamels, glass, marble, etc. See: Bentonite Diatomaceous Earth, Talc, Tripoli, Volcanic Ash, etc.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Goris and Co, 8124 S Heyne Av, Chicago, Ill	Triangle 4-6200
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y	Murray Hill3-8350
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
†Johns-Manville, 22 E 40 St, N Y	Lexington 2-7600
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
†Pacific Coast Borax Co, 51 Madison Av, N Y	Lexington 2-5919
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa	Palmerton 3172
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670

Ackerman, J C, Co, Pittsburgh, Pa
†Carborundum Co, Niagara Falls, N Y
Chem Mfg Sales Co, Chicago, Ill
†Columbia Quarry Co, St Louis, Mo
†Corona Chem Div, Milwaukee, Wisc
†Exolon Co, Tonawanda, N Y
Fay-Cole & Co, Inc, Boston, Mass
†Illinois Minerals Co, Cairo, Ill
†Industrial Minerals & Chem Co, Berkeley, Calif
†Keystone Emery Mills, Phila, Pa
†La Rue Axtell Pumice Co, Eustis, Neb
†Linde Air Prods Co, N Y
†Moore & Son, Tucson, Ariz
†Porter Warner Industries, Inc, Chattanooga, Tenn
Porter Warner Industries, Inc, Chattanooga, Tenn
†Reardon Industries, Cincinnati, O
†Wedron Silica Co, Chicago, Ill

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†Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

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Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500

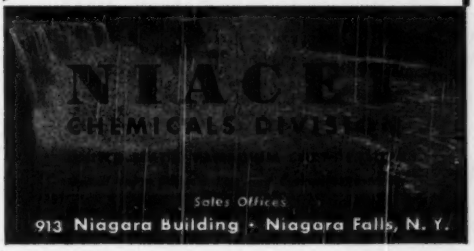
ACETALDEHYDE

99% Minimum

Used in condensation reactions to produce resins, rubber accelerators and antioxidants. Also used in production of dyestuffs, pentaerythretol, cinnamic aldehyde, ethyl lactate.

Prompt shipment in 325 pound net steel drums and 52,000 or 64,000 pound net tank cars.

For further information write to



ACETAL (cont'd)

Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Eastern Chem Corp, Newark, N J	

ACETALDEHYDE

CH_3CHO. M.W. 44.03. Colorless, inflam. liq., pungent, fruity odor. Sp. gr. 0.783 (15°C.). M.P.—123.5°C. B.P. 20.2°C. Sol. water, alcohol, ether. Uses—mfr. organic derivatives, paraldehyde, synth. drugs, dyestuffs, yeast albumin; in silvering mirrors; as photographic developer; in phenolic resins; mfr. synth. rubber. Grades tech.

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y	Niagara Falls 2-2307
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120

Dalton-Cooper, Inc.

200 WEST 34TH ST., NEW YORK 1 CABLES: DALTCOOP

Importers and Exporters of:

GUMS
OILS
SPICES
WAXES
CRUDE DRUGS
CHEMICALS

Inquiries are invited LONGACRE 4-2910

Note: Advertisers precede non-advertisers and are listed with complete street address and telephone number. See Chemical Company Directory for street addresses and telephone numbers of advertisers' branch sales offices and for street addresses of non-advertisers. The Index contains, alphabetically arranged, all Chemicals & Raw Materials, Chemical Specialties and Equipment & Container products with page references. Refer to this first. Synonyms, brands, and trade names are also in the Index, arranged alphabetically.

DOW

CHEMICALS
INDISPENSABLE TO INDUSTRY
AND AGRICULTURE

Acetanilide
Aniline
Anthranilic Acid
Bisphenol A
Bromine
p-tert-Butylphenol
Carbon Bisulfide
Carbon Tetrachloride
Caustic Soda
Chloroacetic Acid
Chloroform
o-Chlorophenol
p-Chlorophenol
o-Cresotinic Acid
o-Dichlorobenzene
Dowicide* (Dow Chlorophenols)
Dowflake* (Dow Calcium Chloride)
Diethylene Glycol
Dipropylene Glycol
Diphenyl
Diphenyl Oxide
Dowmetal* (Dow Magnesium Alloys)
Dowtherm* A (Heat Transfer Medium)
Epsom Salt U.S.P. & Tech.
Ethanolamines
Ethocel* (Dow Ethylcellulose)
Ethyl Bromide
Ethyl Chloride
Ethylene Dibromide
Ethylene Dichloride
Ethylene Oxide
Ferric Chloride
Ferrous Chloride Crystals
Glycol Ethers
Hexachloroethane
Hydrochloric Acid
Magnesium
Magnesium Alloys
Magnesium Chloride
Methocel* (Dow Methylcellulose)
Monochlorobenzene
Paradow* (Dow Paradichlorobenzene)
p-Phenetidine
Phenol and Derivatives
o-Phenylphenol
p-Phenylphenol
Plasticizers
Propylene Dichloride
Propylene Glycol
Propylene Oxide
Salicylates
Salicylic Acid
Saran (Dow Vinylidene Chloride, Polymers & Copolymers)
Sodium Sulfide
Styron* (Dow Polystyrene)
Sulfur Chloride
Perchloroethylene
Trichlorobenzene
Triethylene Glycol
Triphenyl Phosphate

* Trade Mark Reg. U. S. Pat. Off.

More than 600 chmicals produced by The Dow Chemical Company are used in every branch of industry.

THE DOW CHEMICAL COMPANY
3000 MAIN STREET
MIDLAND, MICHIGAN

Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3; Dow Chemical of Canada, Limited, Toronto, Canada.

ACETALDEHYDE (cont'd)

Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
†Publicker Industries, Inc, Phila, Pa

ACETALDOL—see ALDOL

Celanese
CHEMICALS
ACETALDEHYDE
FORMALDEHYDE • PARAFORMALDEHYDE • PROPIONALDEHYDE
ALCOHOLS • INTERMEDIATES • KETONES
SOLVENTS • PLASTICIZERS • ACIDS
See Celanese Advertisement in Catalog Section
CELANESE CORPORATION OF AMERICA
Chemical Div., Dept. 61, 180 Madison Ave., New York 16
Sales Representatives:
NEW YORK • BOSTON • CHICAGO • DETROIT • SAN FRANCISCO
*Reg. U. S. Pat. Off.

ACETAMIDE

CH_3CONH_2. M.W. 59.05. Colorless, deliq. cryst., mousy odor. Sp. gr. 1.159. M.P. 81°C. B.P. 222°C. Sol. water, alcohol. Uses—mfr. intermediates, methyl cyanide, synth. pharmaceuticals. Grades—U.S.P.; C.P. odorless; tech.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2725
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ACETAMIDINE HYDROCHLORIDE

Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

ACETANILID

$C_6H_5NH(COCH_3)$. White cryst. scales. Sp. gr. 1.2105. M.P. 118°C. B.P. 305°C. Sol. hot water, alcohol, ether. Uses—mfr. paranitroacetanilid, paraphenylenediamine, paranitraniline, intermediates, dyestuffs, para red; ingredient cellulose ester dopes, lacquers; stabilizer hydrogen peroxide; as rubber accelerator; in medicine. Grades—U.S.P.; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Dow Chem Co, Midland, Mich — Midland 500
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

ACETATE OF ETHYL ETHER OF DIETHYLENE GLYCOL

$CH_3CO\text{-}O\text{-}CH_2CH_2OCH_2CH_2OC_2H_5$. Colorless liq. B.P. 218°C. Sp. gr. 1.0125 (30°/20°C.). Uses—lacquers, inks.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670

ACETIC ANHYDRIDE

Acetic Anhydride... with a minimum purity of 97.5 per cent by weight... is supplied by Carbide and Carbon Chemicals in 55-gallon containers, compartments, and straight tank cars.

For list of other products see our catalog ad.

Carbide and Carbon Chemicals Division
Union Carbide and Carbon Corporation
30 East 42nd Street UCC New York 17, N. Y.
Offices in Principal Cities

ACETIC ANHYDRIDE (Acetic Oxide, Acetyl Oxide)

$(CH_3CO)_2O$. M.W. 102.06. Colorless liq., strong acetic odor. Sp. gr. 1.082 (15°C.). B.P. 139.6°C. Sol. alcohol, chloroform, ether. Decomposes with water to acetic acid. Uses—mfr. alkyl acetates, fine chemicals, intermediates, synthetic drugs, synthetic dyes, cellulose acetate, in medicine. Grades—tech., 75%, 85%, 90%, 95%; C.P.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
30 E 42 St, N Y	Murray Hill 7-8000
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Shawinigan Prods Corp, 350 5 Av, N Y	Chickering 4-1243
★†Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957
Chem Mfg Sales Co, Chicago, Ill	

acetic anhydride

• Eastman acetic anhydride is widely used for acetylations requiring a stronger reactant than acetic acid. Its high quality and uniformity recommend its use also as a dehydrating agent in reactions such as nitrations and sulfonations where the removal of water is necessary. Available in drums and tank cars.

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Co.)
KINGSPORT, TENNESSEE

EASTMAN INDUSTRIAL CHEMICALS

Sales Reps in principal cities—see ad in Catalog Section.

ACETIN (Monoacetin, Glycerin Monoacetate)

$C_6H_2O_2C_2H_3(OH)_2$. Colorless, thick hygroscopic liq. Sp. gr. 1.221. (15°C.). B.P. 240°C. Decomposes on heating. Sol. water, alcohol, ether. Uses—mfr. dinitroacetylglycerin, non-congealing dynamites; tanning leather; solvent for basic dyestuffs; gelatinizing smokeless pwr. Grades—C.P.; tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800

ACETOACETANILIDE (Acetylacetanilide)

$CH_3COCH_2CONHC_6H_5$. Snow white crystals. M.P. 84°85°C. Insol. water, sol. in dilute sodium hydroxide solution. Uses—intermediate in the manufacture of dry colors (Hansa Yellows).

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700

ACETOACET-o-ANISIDIDE

$CH_3COCH_2CONHC_6H_4OCH_3$. M.W. 207.22. White, fine crystalline powder. M.P. 82-85°C. Uses—Intermediate in the manufacture of dry colors (Hansa Yellows).

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700

ACETOACETARYLIDES

General class of compounds made by coupling ethyl acetoacetate with aromatic amines. Uses—Intermediate in the manufacture of dry colors of varying shades (Hansa Yellows).

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
†Carwin Co, Stiles Lane, North Haven, Conn	New Haven 2-2161
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700

ACETOACET-o-CHLORANILIDE

$CH_3COCH_2CONHC_6H_4CL$. M.W. 211.65. White, fine crystalline powder. M.P. not less than 102.5. Uses—Intermediate in the manufacture of dry colors (Hansa Yellows).

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700

ACETOACET-p-CHLORANILIDE

$CH_3COCH_2CONHC_6H_4CL$. M.W. 211.65. White, fine crystalline powder. M.P. 130-132°C. Uses—Intermediate in the manufacture of dry colors (Hansa Yellows).

†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700

ACETOACET-o-TOLUIDIDE

White, granular powder. M.p. not less than 103.5°C; purity not less than 96% by CO_2 evolution method. Uses—intermediate in mfr. of Hansa Yellows. Grade—technical.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700

ACETONE (Dimethylketal, Dimethylketone, Ketopropane, Pro-acetic Ether, Methylacetyl, Propanone)

CH_3COCH_3. Colorless, inflam. liq., fragrant, mint-like odor. Sp. gr. 0.799 (25°C.). M.P.—94.9°C. B.P. 55.5°-57.5°C. Miscible water, alcohol, ether, ethereal salts, many oils. Uses—mfr. acetone derivatives, acetone oil, chloroform, pharmaceuticals, iodoform, sulfonal, ionone, indigo, nigrosin, quinolin, diphenylamine and azo dyes, prepared motor fuels, lubricating compositions, rayon, rubber cements, horn substitutes, photographic films and plates, cellulose acetate plastics, Celluloid, pyroxylin plastics; as solvent; solvent for starches, dextrins, smokeless pwr., cordite, gum, petroleum products, making artificial leather, artificial perfumes, asphalt, bitumens, acetate dopes and varnishes, bituminous paints, nitro-cellulose lacquers, synth. and natural waxes and resins, purifying paraffin and rubber; denaturant for industrial alcohol; extracting medium; extracting fats and oils; disinfectant; cleansing agent; storing acetylene; treating hides; dyeing cotton with aniline black; degreasing wool; degumming silk; in medicine. Grades—U.S.P.; C.P.; tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993

ACETONE

lacquer thinners
methyl ethyl ketone
butyl acetate • butyl alcohol
chlorinated solvents • denatured alcohol

— • —

Industrial Chemicals

— • —

L. J. & M. LAPLACE
HACKENSACK, N. J.
HACKENSACK 3-0412 BRYANT 9-8069

Celanese®

CHEMICALS

ACETONE

n-PROPANOL BUTYL ALCOHOLS
METHANOL METHYLAL
ACIDS ALDEHYDES SOLVENTS

See Celanese Advertisement in Catalog Section

CELANESE CORPORATION OF AMERICA
Chemical Div., Dept. 61, 180 Madison Ave., New York 16
Sales Representatives:
NEW YORK • BOSTON • CHICAGO • DETROIT • SAN FRANCISCO
*Reg. U. S. Pat. Off.

ACETONE (cont'd)

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
†Colo Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Conway Prods Co, 510 6 Av, N Y	Oregon 5-2505
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Coe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650

ACETONE

Low boiling, versatile solvent. Clear, colorless liquid, miscible with water and most organic liquids.

ENJAY COMPANY, INC.
15 West 51st St.
New York 19, N. Y.

ENJAY

Write or phone for further information.

Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464

ACETONE

Acetone . . . of high purity (not less than 99.5 per cent by weight) and uniform quality . . . is supplied by Carbide and Carbon Chemicals in 55-gallon containers, compartments, and straight tank cars.

For list of other products see our catalog ad.

Carbide and Carbon Chemicals Division
Union Carbide and Carbon Corporation
30 East 42nd Street UCC New York 17, N. Y.

Offices in Principal Cities

ACETONE (cont'd)

McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Maxim Chem Co, Inc, 44 Cliff St, N Y	Worth 4-0070
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120

ACETONE

SHELL CHEMICAL CORPORATION
500 Fifth Avenue, New York 18
100 Bush Street, San Francisco 6

Los Angeles • Houston • St. Louis • Chicago • Cleveland • Boston • Detroit • Newark

Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Shawinigan Prods Corp, 350 5 Av, N Y	Chickering 4-1243
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
★†Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660

acetone

Because of its excellent color and odor, Eastman acetone is desirable for use as a process solvent for extraction of drugs and food products. It is soluble in water, alcohol, ether and chloroform. Available in drums, compartmented and full tank cars.

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Co.)
KINGSPORT, TENNESSEE

EASTMAN INDUSTRIAL CHEMICALS

Sales Reps in principal cities—see ad in Catalog Section.

†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

Ackerman, J C, Co, Pittsburgh, Pa
Chem Sales Corp, Buffalo, N Y
Farinella, Frank C, N Y
Horn, Jefferys & Co, Burbank, Calif
Houghton, Philip A, Inc, Boston, Mass
Interboro Chem Co, N Y
McClellan, G C, & Co, Boston, Mass
Mfrs Chem Co, N Y
Miller, Carl F, & Co, Inc, Seattle, Wash
Phillips & Martin Co, Chicago, Ill
†Publicker Industries, Inc, Phila, Pa
Rimco Trading Corp, N Y
Riverside Chem Co, Inc, N Tonawanda, N Y
Senn, George, Inc, Phila, Pa
Slater-Robbins, Inc, Long Is City, N Y
Stark, J W, Co, Detroit, Mich
Warren-Douglas Chem Co, Inc, Omaha, Neb
Washington Color & Chem Co, Seattle, Wash
†Western Condensing Co, Appleton, Wis
Wilkoff, David L, Co, N Y

ACETONE CYANOHYDRIN (α-Hydroxyisobutyronitrile)

$(CH_3)_2C(OH)CN$. M.W. 85.06. Colorless to straw colored liquid. B.P. 82°C at 23mm. Sol. water, alcohol, ether. Uses: production of methyl methacrylate resins, solvent, organic intermediate.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

ACETONITRILE (Ethanetrile, Methyl Cyanide)

CH_3CN. M.W. 41.05. Colorless liquid. M.P. —44°C. B.P. 82°C.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

ACETONYL ACETONE

$CH_3(CO)CH_2CH_2(CO)CH_3$. A colorless, water-sol. Liq. B.P. 191.3°C. Solvent for cellulose acetate, with a xylene nitrocellulose dilution ratio of 1.8. A small per cent. reduces the viscosity of nitrocellulose and Vinylite resin solutions. Being a 1,4-diketone, it condenses with reagents to form ring compounds which are derivatives of furan thiophene, and pyrrole, thus providing a simple method for passing from open chain to cyclic compounds. Has a tanning effect on hides and skins.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

NYQ
REG. U.S. PAT. OFF.
THE FULL LINE FINE CHEMICAL HOUSE
ACETOPHENETIDIN
ACID BENZOIC
ACID GALLIC
ACID LACTIC
ACID TANNIC
AMMONIATED MERCURY
BARBITURATES
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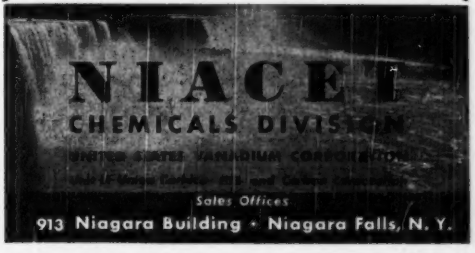
ACETOPHENETIDIN (Phenacetin, p-Ethoxyacetanilid)

$C_{10}H_{13}O_2N$. M.W. 179.20. White, fine, crystalline powder, having no odor and a slightly bitter taste. M.P. 134.9°C. Sol. in organic solvents; slightly soluble in water. Uses—in medicine, as antipyretic and sedative. Grade—U. S. P. XI.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
†Dow Chem Co, Midland, Mich — Midland 500
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

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Acrylonitrile
Cyanuric Chloride
Dicyandiamide
Ethylene Cyanohydrin
Guanadine Compounds
AMERICAN Cyanamid COMPANY
30 Rockefeller Plaza, New York 20, N. Y.

ACETONITRILE
$CH_3C{\equiv}N$
BOILING RANGE . . . . . 80 to 82°C.
PURITY . . . . . 99% Min.
A clear colorless stable liquid. An excellent solvent and extraction agent. Used for the preparation of vitamin B_1, thio acetamide, pyrimidines, etc.
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Cellulose esters — Water
Fatty acids — Ethyl Alcohol
Acetone — Ethyl Acetate
Benzene — Castor Oil
Containers: 350 lb. Steel Drums
For further information write to



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R. W. GREEFF & CO., INC.
10 Rockefeller Plaza, New York 20, N. Y.
2205 Tribune Tower, Chicago, Ill.

ACETOPHENETIDIN (cont'd)

†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

ACETOPHENETIDIN, U.S.P.
Supplied as white crystalline powder. Solubility in ethyl alcohol 95% (1:15), complete; m.p. 135.0° C. min.; ash 0.05% max.
MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
1700 South Second Street
St. Louis 4, Mo.
MONSANTO
CHEMICALS | PLASTICS
SERVING INDUSTRY... WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

ACETOPHENONE (Phenylmethylketone, Benzoyl Hydride, Acetyl Benzene Hypnone)

C_8H_8O M.W. 120.06. Colorless liq. or transparent cryst. Sp. gr. 1.02825. M.P. 20.5°C. B.P. 202°C. Insol. water; sol. alcohol, ether, chloroform oils. Uses—mfr. perfumes, pharmaceuticals, organic chemicals; in medicine.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

†Trubek Labs, Inc, E Rutherford, N J

ACETYLACETONE (Pentanedione-2,4)

$CH_3COCH_2COCH_3$. M.W. 100.06. Clear, colorless liquid; mild ketone-like odor. Completely miscible with most organic solvents. Uses: certain metal salts of above serve as fungicides, insecticides, driers for paints and varnishes, colors for inks.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877

ACETYL-p-AMINO PHENOL SALICYLATE

†Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919
†Sumner Chem Co, Inc, 52 Wall St, N Y	Digby 4-3880

Chem Mfg Sales Co, Chicago, Ill

ACETYL CHLORIDE (Ethanoyl Chloride)

CH_3COCl. M.W. 78.48. Colorless, burning liq.; strong odor, irritates the eyes. Sp. gr. 1.1051 (20°C.). M.P. 112.0°C. B.P. 52°C. Sol. ether; miscible with acetone, acetic acid; reacts violently with alcohol and water. Uses—mfr. acetyl derivatives, intermediates, pharmaceuticals, synth. dyes. Grades—tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

Chem Mfg Sales Co, Chicago, Ill †Trubek Labs, Inc, E Rutherford, N J

ACETYL CHOLINE CHLORIDE

$(CH_3)_3NC1CH_2CH_2OOCCH_3$. M.W. 181.59. White, odorless, hygroscopic crystals. Very sol. in cold water; insol. in ether. Uses: in pharmacy as a vaso-dilator.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Failek Prods Co Inc, 163 Bway, N Y	Barclay 7-7939
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818

†Arenol Chem Corp, Long Is City, N Y †Red Star Chem Co, Inc, Long Is City, N Y
Chem Mfg Sales Co, Chicago, Ill

ACETYL ISOBUTYRYL

$CH_3COCOCH(CH_3)2$. Yellow liquid, b.p. 118°C. Partly soluble in water. Uses—flavoring. Grade—commercial.

†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375

ACETYL METHYL CARBINOL (Acetoin)

CH_3-CO-CHOH-CH_3. Slightly yellow liq. with tendency to slowly change into cry. polymer which can be converted back ino monomer by careful melting of crystals. S.G. 1.016 (15°C.); B.P. 140°C.-144°C. Miscible with water in all proportions. In contact with air slowly oxidizes to diacetyl. Uses—in place of diacetyl in cases where dincetyl itself is too volatile. Grades—90% acetyl methyl carbinol.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†Lucidol Div, Novadel-Agene Corp, 1740 Military Rd, Buffalo, N Y	Victoria 1740
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

ACETYL PEROXIDE

$(CH_3CO)_2O_2$. M.W. 118. Crystal clear liquid; strong odor. Sol. most organic solvents. Uses: source of free radicals in organic synthesis; catalyst for bulk polymerization; modification of oils; vulcanising and curing agent for rubber; decolorizing agent.

Becco Sales Corp, Buffalo, N Y	Bedford 8300
†Buffalo Electro-Chem Co, Inc, Buffalo, N Y	Bedford 8300

ACETYL PROPIONYL

$CH_3COCOCH_2CH_3$. Yellow liquid, b.p. 106°-110°C. Partly soluble in water. Uses—flavors of butterscotch and chocolate type.

†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375

3-ACETYLPYRIDINE

$C_5H_4N(COCH_3)$. M.W. 121.10. Colorless liquid. Uses: nutrition, organic syntheses.

†Farchan Research Labs, 609 E 127 St, Cleveland, 0	Glenville 1-8749

2-ACETYL THIOPHENE

†Algo Chem Co, Detroit, Mich

ACETYL TRIBUTYL CITRATE

A colorless, odorless plasticiser of very low volatility and of high water resistance. Compatible with a wide variety of plastic materials such as the cellulose ethers and esters, polyvinyl and polyvinyl acetal resins, phenolics, alkyds, etc. Can be used in products for injection or compression molding, also as a plasticizer in coatings

†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800

ACETYL TRIETHYL CITRATE

†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800

ACETYLENE (Ethine)

C_2H_2. M.W. 26.02. Colorless, poisonous, inflam gas, garlic odor. Sp. gr. 0.91. M.P. —81.5°C. B.P. —83.6°C. Sol. alcohol, acetone, water. Uses—illuminant; oxyacetylene welding; organic synthesis; mfr. acetylene tetrabromide, acetylene tetrachloride, glass, calico printing, photographic paper, colors, inks; in medicine. Grade—tech.

†Amer Oxygen Service Corp, Harrison, N J	†Linde Air Prods Co, N Y
Edison, Thomas A, Inc, Stuyvesant Falls, N Y	Pittsburgh Thermoline Co, Pittsburgh, Pa
	†Stuart Oxygen Co, San Fran, Calif

ACETYLENE, BLACK

Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
†Shawinigan Prods Corp, 350 5 Av, N Y	Chickering 4-1243

ACETYLENE TETRABROMIDE (Muthmann's Liquid, Tetrabromoethane)

$CHBr_2.CHBr_2$. White to yellow, oily liq. Sp. gr. 2.973. B.P. 136°C. Insol. water; miscible alcohol, ether. Uses—as solvent; separation of mineral mixtures.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Michigan Chem Corp, St Louis, Michigan — 41
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

ACETYLENE TETRACHLORIDE (Acetosol, Boroform, Cellon, Tetrachloroethane)

$CHCl_2CHCl_2$. M.W. 167.85. Colorless liq. Sp. gr. 1.60 (20°/4°C). Pounds/gal. 13.19. M.P. —43.8°C. B.P. 146.3°C. V.D. (15°C.) lbs./cu. ft. 0.443. Latent Heat of Vap., B.T.U./lb. 99.11. S.H., cal./kg./°C. or B.T.U./lb./°F. 0.269 (20°C.). Sol. alcohol, ether. Insol. water. Uses—mfr intermediates, organic chemicals, paint and varnish removers, acetate varnishes, photographical films; denaturing alcohol; solvent for shellac, gum, camphor, sulfur, phosphorus, the halogens, oils, cellulose acetate, resins; degreasing metals prior to electroplating; in enameling; in insecticides. Grades—tech.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Superior Prods Co, Somerville, Mass

ACETYLENIC HYDROCARBONS (Alkyl Acetylene, Aryl Acetylene)

$R \cdot C \equiv CH$. Colorless gases and liquids. Sol. most organic solvents. Uses: organic synthesis; plastics; fuels.

†Farchan Research Labs, 609 E 127 St, Cleveland, O — Glenville 1-8749

ACID 1:2:4 (1—Amino—2—Naphthol—4—Sulfonic Acid Hydroxy Acid)

$C_{10}H_9NO_4S$. Pinkish-white needles. Sol. hot water. Uses—analyzing phosphates and calcium; mfr. aniline dyes. Grades—tech.

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Coris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Gen Aniline Wks, N Y — Preiser, B, & Co, Charleston, W Va

ACID ABIETIC (Abietinic Acid)

$C_{20}H_{30}O_2$. M.W. 302.23. Yellowish-brown powd. M.P. 161°C. Sol. alcohol, benzene, ether, acetone, glacial acetic acid, carbon bisulfide. Insol. water. Uses—mfr. metal resinates, varnish dryers; to assist growth of lactic and butyric acid ferments.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Hercules Powder Co, 978 Market St, Wilmington, Del
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Rimco Trading Corp, N Y — Zimmerman, C L, Co, Cincinnati, O

ACID ACETIC (Vinegar Acid, Ethanoic Acid, Methanecarboxylic Acid)

CH_3COOH. Colorless liq. of pungent odor. Sp. gr. 1.049 (25°C.). M.P. 16.7°C. B.P. 118.1°C. Sol. water, alcohol and ether. Uses—mfr. metallic acetates, acetyl organic derivatives, intermediates, esters, pharmaceuticals, azo dyes, methyl violet, matches, printing inks, artificial leather, aeroplane lacquers, white lead, copper pigments, varnishes, polishes, moving picture films, cellulose acetates, phenolformaldehyde resins, rayon, printing pastes; as curing agent; insecticide ingredient; in coagulating rubber latex; assist in dyeing wool and silk; in engraving; as resin solvent; electroplating reagent in medicine. Grades—commercial dilute 6%, 28%, 30%, 36%, 54%, 60%, 70%, 80%; pure; tech. 80%; glacial 99.5%; U.S.P. glacial.

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ALDEHYDES
ALCOHOLS
GLYCOLS
KETONES
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CHEMICAL DIVISION, Dept. 61
180 Madison Avenue, New York 16

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Arsenious
Benzoic
Boric
Carbolic
Chloroplatinic
Chromic
Fluoboric
Fluosulfonic
Formic, 98-100
Gallic
Hydriodic
Hydrobromic
Hydrochloric
Hydrofluoric
Hydrofluosilicic
Hypophosphorous
Iodic
Lactic
Molybdic
Monochloroacetic
Nitric
Nitric, Fuming
Nitric, Red Fuming
Oxalic
Palmitic
Perchloric
Phosphomolybdic
Phosphoric, Anhydride
Phosphoric, Meta
Phosphoric, Ortho
Phosphorous
Phosphotungstic
Phthalic, Anhydride
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Reagents and Fine Chemicals
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Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650

ACID ACETIC (cont'd)

Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fergusson, Alex C. Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5510
Hunt, Philip A, Co, Palisades Park, N J	Leonia 4-4000
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
Kali Mfg Co, 427 Meyer St, Phila, Pa	Regent 9-2370
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif	Kimball 2214
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735

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†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y	Niagara Falls 2-2307
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Philiop Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Shawinigan Prods Corp, 350 5 Av, N Y	Chickering 4-1243
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y	Lexington 2-5806
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
★†Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957
†Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333
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Lotte Chem Co, Inc, Paterson, N J
Minnesota Chem Co, St Paul, Minn
Moser, George, & Son, Inc, Detroit, Mich
Norman-Willets Co, Chicago, Ill
†Publicker Industries, Inc, Phila, Pa
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HOOC·C≡C·COOH. M.W. 114.06. White crystalline solid. Sol. water, alcohol, ether. Uses: organic syntheses, pharmaceuticals, plastics

†Farchan Research Labs, 609 E 127 St, Cleveland, O	Glenville 1-8749

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$CH_3CO_2C_6H_4CO_2H$. White crystals. B.P. 132-135°C. Sol. alcohol, ether, slightly water. Grades—tech.; U.S.P. Uses—in pharmaceuticals; as a preservative.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
†Dow Chem Co, Midland, Mich	Midland 500
European Chem Co Inc, 366 Bway, N Y	Beekman 3-6246

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Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Lack Chem Co, 19 Park Pl, N Y	Cortlandt 7-5942
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091

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Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
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†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
†Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176

ACID, ACONITIC

CH(COOH)=C(COOH)CH_2COOH. M.W. 174.11. White to slightly yellowish crystals. M.P. 180° C. (with decomp.) Sol. in water. Uses: chemical intermediate, antioxidant, in plastics.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
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$C_6H_{10}O_4$. M.W. 146.11. Colorless or yellowish crystals. M.P. 153°C. B.P. 265°C. Slightly sol. in water; soluble alcohol or ether. Mfr. oxidation of C_6H_{12} or by treatment of oleic acid and other fats with nitric acid. Uses: plasticizer; for synthetic resins and other syntheses.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
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Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
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$CH_2(NH_2).COOH$. M.W. 75.05. Colorless, sweet cryst. M.P. 233°C. Sol. water. Slightly sol. alcohol. Insol. ether. Uses—mfr. varnishes; in medicine. Photographic glycine is not the amino-acetic acid but paraoxy-phenyl glycine phenyl amino-amino acetic acid.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
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Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600

ACID-p-AMINO BENZOIC

$C_6H_4.NH_2.COOH$ (1:4). M.W. 137.10. Pale-yellow cryst. needles; acidulous, bitter taste. Sol. easily in alcohol, ether and in boiling water. M.P. 187°C. Uses—mfr. various esters and azo dyes.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Chems Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
†Fallek Prods Co Inc, 163 Bway, N Y	Barclay 7-7939
†Fisher Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-2587
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Ladi, N J	Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
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†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Panray Corp, N Y	
†Purocaine, Inc, N Y	
†Richmond Chem Corp, Staten Is, N Y	

ACID AMINO PROPIONIC

$CH_3CH(NH_2).COOH$. M.W. 89.06. M.P. 297°C. White cryst. mat. Uses; in medicine, buffers, synthesis. Grades: C.P.

†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818

ACID AMINO SALICYLIC

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Fisher Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-2587
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818
†Sumner Chem Co, Inc, 52 Wall St, N Y	Digby 4-3880

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Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
DeLamar-Hendray Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
Lack Chem Co, 19 Park Pl, N Y	Cortlandt 7-5942
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Ladi, N J	Prescott 7-5805
Le Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
†Sumner Chem Co, Inc, 52 Wall St, N Y	Digby 4-3880
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
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Panray Corp, N Y	
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$C_8H_8O_3$. M.W. 152.1. Colorless crystals. M.P. 184°C.; B.P. 275°C. Slightly sol. water, sol. alcohol, ether. Uses—aromatic; as an antiseptic; in medicine.

†Carwin Co, Stiles Lane, North Haven, Conn	New Haven 2-2161
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O	Elmhurst 1300
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

ACID ANTHRANILIC (Acid Orthoamino Benzoic)

$(NH_2)C_6H_4(COOH)$. M.W. 137.06. Yellow cryst. M.P. 144°C. Sol. water, alcohol, ether. Uses—mfr. pharmaceuticals, thioalicylic acid, azo dyes, indigo, vat dyes, methyl anthranilate, drugs, perfumes. Grades—95-98%; 99% or better.

Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2725
†Dow Chem Co, Midland, Mich	Midland 500
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120

ACID ARSANILIC (Atoxylic or para-Aminophenylarsenic Acid, Arsenic, Acid Anilid)

$C_6H_4.NH_2.AsO(OH)_2$. White crystalline powd. M.P. 232°C. Slightly sol. alcohol, cold water. Sol. hot water, amylic alcohol, ether, solutions of alkali carbonates, dilute mineral acids. Insol. acetone. Uses—mfr. arsenicals. Grades—medicinal; tech.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600

ACID ARSENIC (Arsenic Pentoxide, Orthoarsenic Acid)

H_3AsO_4. $1/2H_2O$. Colorless cryst. Sp. gr. 2-2.5°C. M.P. 35.5°C. B.P. 160°C. Sol. water. Slightly sol. alcohol. Uses—mfr. arsenates, insecticidal compositions, glass; assist in dyeing and calico printing. Very poisonous. Grades—various as to purity.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360

ACID ARSENIC (cont'd)

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y	Lexington 2-5806
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651

ACID ASCORBIC—see VITAMIN C

ACID, ASPARTIC

$H_2NCH(COOH)CH_2COOH$. M.W. 133.1. White crystalline powder. Sol. in acids, alkalies. Uses: intermediate in organic synthesis.

†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

ACID AZELAIC

$COOH(CH_2)_7COOH$. M.W. 188. Solid flaked light tan material. Sol. hot water, alcohol, ether. Uses: in mfg. of plasticizers, resins, salts, perfumes and other organic chemicals.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9[illegible]
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550

ACID BARBITURIC (Malonyl Urea, Pyrimidinetrione)

$CO(NHCO)_2CH_2H_2O$. White cryst. Decomposes on heating. Sol. water, alcohol, ether. Uses mfr. pharmaceuticals, plastics; stabilizer for H_2O_2. Grades—tech.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
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Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660

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†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
†Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas	CA2371
†Cornwell Chem Corp, Cornwells Hgts, Pa	Cornwells 0302
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Hill Bros Chem Co, 21359 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland	
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
†Rumford Div, Heyden Chem Corp, Rumford, R I	East Providence 1-2880
★†Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200
Bartlett Chems, Inc, New Orleans, La	Globe Chem Co, Cincinnati, O
†Cascade Chem Co, Seattle, Wash	Lotte Chem Co, Inc, Paterson, N J
†Con Chem Industries, Inc, San Fran, Calif	

ACID BENZENE SULFONIC

$C_6H_5O_3S$ 3.1/2H_2O_2. M.W. 188.2. Colorless leaflets. M.P. 65°C.; B.P. 185°C.; sol. water, alcohol, insol. ether. Uses: Intermediate in mfr. dyestuffs, etc.

†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700

ACID, BENZILIC (Diphenylglycollic Acid)

$(C_6H_5)_2C(OH)COOH$. M.W. 228.13. Small white monoclinic crystals with satiny luster. Very sol. alcohol, ether, boiling water; slightly sol. in cold water. Uses: in chemical synthesis.

†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J	Prescott 7-5805

BENZOIC ACID

Grades: U.S.P., assay 99.5% min. (dry basis); Technical, assay 99.0% min.

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ACID BENZOIC (Phenylformic Acid, Benzenecarboxylic Acid)

C_6H_5COOH. Needle cryst. or white scales, benzoin odor. Sp. gr. 1.2659. M.P. 121.25°C. B.P. 249.3°C. Sol. alcohol, ether; slightly sol. water. U.S.P. Uses—mfr. benzoates, derivatives, pharmaceuticals, aniline blue, aniline dyes, anthraquinone dyes, toilet preparations, alkyl benzoates, perfume bases; used as food preservative; mordant in calico printing; curing tobacco; in medicine. Grades—U.S.P.; C.P.; tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
†Carus Chem Co Inc, Union & 8 Sts, La Salle, Ill	La Salle 1500
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Dow Chem Co, Midland, Mich	Midland 500
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y	6655
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
†Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Panray Corp, N Y	Russell, W R, & Co, N Y

ACID BORIC (Acid Boracic, Acid Orthoboric, Fumarole Acid)

H_3BO_3. White cryst. or powd. Sp. gr. 1.4347. M.P. 184°C. Soluble water, alcohol. Uses mfr. borates, water glass, boric esters, intermediates, optical glass, ceramic glaze, starch glaze for linen, artificial precious stones, shellac hat stiffeners, paint driers, green pigments, enamels, cosmetics, soaps, fireproofing fabrics; used as food preservative; curing meats; impregnating candle wicks; dressing leather; for preparing hides; decorating iron and steel; as flux, brazing copper; fire-proofing agent for safes; fininshing paper; mordant in dyeing and printing; wine preservative; buffer in electroplating; in medicine. Grades—U.S.P.; C.P.; tech.; cryst. powd.; impalpable powd. (99.5%—100%).

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Amer Potash & Chem Corp, 122 E 42 St, N Y	Murray Hill 5-7142
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Coburn, C B Co, 63 Market St, Lowell, Mass	Lowell 9331
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670

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ACID BORIC (cont'd)

Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
La Pine, Arthur S. & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8580
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Freilinghuysen Av, Newark, N J — Bigelow 3-0700
†Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Bartlett Chems, Inc, New Orleans, La
Chem Mfg Sales Co, Chicago, Ill
Croton Chem Corp, N Y
Interboro Chem Co, N Y
Marble-Nye Co, Worcester, Mass
Ritter Chem Co, Amsterdam, N Y

ACID BROENNER'S (Acid Naphthylamine—Sulfonic 2:6 (1)

$C_{10}H_6NH_2SO_3H.H_2O$. M.W. 241.15. Colorless needles. Sol. boiling water. Uses—mfr. dyestuffs. Grades—tech.

†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

ACID BROMOACETIC

$BrCH_2COOH$. M.W. 139. White to pale yellow, deliquescent crystalline solid. Very sol. common organic solvents. Uses: organic syntheses.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

ACID BUTYRIC (Acid Ethylacetic, Acid Butanoic, Acid Propylformic)

$CH_3(CH_2)_2CO_2H$. M.P. —3.12°C. Colorless, oily liq., rancid odor. Sp. gr. 0.960 (15°C.). B.P. 163.5°C. Sol. water, alcohol, ether. Uses—mfr. esters and salts, essences, butter, varnishes, synth. perfumes; cellulose esters; butyrates; flavors; ketones; as flavoring agent; disinfectant; deliming hides, tanning agent. Grades—pure, 99%.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

ACID CACODYLIC (Dimethylarsinic, or Kakodylic Acid)

$AsO(CH_3)_2OH$. M.W. 138.03. Colorless, odorless, slightly sour crystals. Hygroscopic in moist air M.P. 200°C. Uses-Medicine, organic synthesis, manufacture of dyes.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-900
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200

Chem Mfg Sales Co, Chicago, Ill

ACID, CAMPHORIC

$C_8H_{14}(COOH)_2$. M.W. 200.18. Colorless, odorless crystals. Sol. water, Fats, Oils. Insol. chloroform. Uses—medicine, manufacture celluloid and similar plastics.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
†Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ACID CAMPHORSULFONIC

$C_{10}H_{15}O_4S$. M.W. 232. White powder. Sol. water. M.P. 200-202°C. Uses: medicinal.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600

ACID, CAPRIC (Decanoic Acid, Decatoic Acid, Decoic Acid, Decylic Acid)

$CH_3(CH_2)_8COOH$. White crystals; unpleasant odor. Sp. gr. 0.886; b.p. 268-270°C; m.p. 31.6°C; refractive index 1.42855 at 40°C. Sol. most organic solvents, dilute nitric acid; insol. water. Uses—mfr. of esters for perfumes and fruit flavors. Grade—technical.

†Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
†Gross, A, & Co, 295 Madison Av, N Y — Murray Hill 3-8250
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383

†El Dorado Oil Wks, Oakland, Calif
Neal, L W, Phila, Pa
Trask, Arthur C, Co, Chicago, Ill

ACID n-CAPROIC (Hexanoic Acid)

$C_6H_{12}O_2$. M.W. 116.16. Colorless, oily liquid of characteristic odor. B.P. 203.1°C. Sol. most organic solvents, slightly sol. in water. Uses—mfr. perfumes, flavors, and ess. oils; mfr. rubber chemicals, varnish driers, and resins, and for preparation certain medicinals. Grade—reagent.

Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

ACID n-CAPROIC (cont'd)

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383

ACID, CAPRYLIC (Hexylacetic Acid, Octanoic Acid, Octoic Acid, Octylic Acid, Octic Acid)

$CH_3(CH_2)_6COOH$. Colorless liquid; crystallizing below 17°C. Sp. gr. 0.9186; b.p. 235-237°C; refractive index 1.4285 at 20°C. Sol. water, alcohol, ether. Uses—syntheses of various dyes, drugs and perfumes. Grade—technical.

†Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
†Gross, A, & Co, 295 Madison Av, N Y — Murray Hill 3-8250
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383

†El Dorado Oil Wks, Oakland, Calif — Trask, Arthur C, Co, Chicago, Ill
Neal, L W, Phila, Pa

ACID CARBOLIC CRYSTALS (Phenol)

C_6H_5OH. M.W. 94.05. White cryst., distinctive odor. Sp. gr. 1.071-2. M.P. 42.5-43°C. B.P. 182.6°C. Sol. water, alcohol, chloroform, ether, glycerine, alkalies. Uses—mfr. deodorizing preparations, germicide soaps, synth. perfumes; as disinfectant; antiseptic; germicide. Very poisonous. Grades—U.S.P.; C.P.; synth.; tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Dow Chem Co, Midland, Mich — Midland 500
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Galwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoonewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120

Chem Mfg Sales Co, Chicago, Ill

ACID, CARMINIC

$C_{16}H_{18}O_{13}$. M.W. 492.00. Dark reddish brown or bright red powder. Uses: biological stain; reagent for aluminum; pH indicator—pH range 4.8 (yellow) to 6.2 (purple).

†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8852

ACID CHICAGO (Acid SS, Acid, 1—Amino—8—Naphthol—2:4 Disulfonic)

$C_{10}H_4(NH_2)(OH):(SO_3H)_2$ 1:8:2:4. Gray paste. Sol. water. Uses—mfr. azo dyes. Grades—tech; paste (25% min.).

†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
Schmitz-Schoonewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120

ACID CHLOROACETIC, Di (Bichloracetic Acid, Carboxy-Methyl Chloride)

$CHCl_2COOH$. M.W. 128.93. Colorless liq., pungent odor. Sp. gr. 1.560 (25°C.). B.P. 194°C. M.P. 10; —4°C. Uses—in organic synthesis; in medicine.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500

ACID CHLOROACETIC, Mono

$CH_2ClCOOH$. M.W. 94.48. Deliq., colorless cryst. Sp. gr. 1.40 (62°C.). M.P. 61.2°C. B.P. 189.5°C. Uses—mfr. intermediates, dyes; in organic synthesis; in medicine. Caution: handle carefully.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

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For listings of other products see Catalog Section ad.

ACID CHLOROACETIC, Mono (cont'd)

International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland

Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoonewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200

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ACID, CHLOROACETIC, Tri

Cl_3CCOOH. Deliq. cryst., suffocating odor. Sp. gr. 1.6298. M.P. 57°C. B.P. 196°C. Sol. water, alcohol, ether. Uses—mfr. intermediates, organic chemicals; as laboratory reagent; in medicine. Grades—tech.; U.S.P.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chems Pure Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

ACID-o-CHLOROBENZOIC

ClC_6H_4COOH. M.W. 156.50. Colorl. monoclinic. Density 1.544 @ 20°C. M.P. 142°C. B.P. sublimes. Sol. water, alcohol, ether.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

ACID-p-CHLOROBENZOIC

ClC_6H_4COOH. M.W. 156.50. Colorl. triel. Density 1.541 @ 25°C. M.P. 243°C. B.P. sublimes. Sol. alcohol, ether. Sltl. sol. water.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

ACID, p-CHLOROPHENOXYACETIC

†Dow Chem Co, Midland, Mich — Midland 500
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

ACID CHLOROPLATINIC (Platinic Chloride, Platinum Chloride)

$H_2PtCl_6.6H_2O$. M.W. 518.08. Red-brown cryst. Sp. gr. 2.431. M.P. decomposes on heating. Sol. water, alcohol, ether. Uses—mfr. potassium chloroplatinic and other platinum salts, platinum mirrors, indelible inks; as laboratory reagent; plating metals with platinum; toning photographic prints; etching zinc printing plates; for blacks on silver and cadmium; for fine platinum color effects on ceramics. Grades—tech.; pure, reagent. Usually sold under the name platinum chloride or platinic chloride.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

ACID, alpha-CHLOROPROPIONIC

†Dow Chem Co, Midland, Mich — Midland 500

ACID CHLOROSULFONIC (Sulfuric Chlorohydrin)

SO_2ClOH. M.W. 116.52. Brown, oily, corrosive, fuming liq. Sp. gr. 1.784. B.P. 151.5°C. Sol. water, alcohol. Uses—mfr. intermediates, rosaniline, alizarin, puperine, organic chemicals, synthetic drugs, saccharine, military poison gas. Grades—tech. (93-95%).

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9580
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120

ACID, CHOLIC

Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Hexagen Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686

†Drug Labs, Phila, Pa

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CrO_3. Reddish-brown, deliq. cryst. Sp. gr. 2.67-2.82. M.P. 196°C. Sol. water, ether. Uses—mfr. chromates, chrome dyestuffs, electric batteries, colored glass, printing and lithographic inks; as mordant in dyeing and printing textiles; laboratory reagent; oxidising agent; in chrome plating; process engraving; anodising aluminum; medicine. Grades—U.S.P.; tech. (99.5-99.75%).

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Chemstar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970

ACID CHROMIC (cont'd)

Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Gusin St, Detroit, Mich — La 7-4650
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Fassy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 6980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Mutual Chem Co of Amer, 270 Madison Av, N Y — Caledonia 5-9710
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-2757
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Xansas City, Mo — Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
Wallen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Colonial Chem Co, Seattle, Wash
Donald Sales & Mfg, Co, Milwaukee, Wisc
Duso Chem Co, Inc, Poughkeepsie, N Y
†Fiber Chem Corp, Matawan, N J
Globe Chem Co, Cincinnati, O
Kruger, L, & Co, Inc, N Y
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$C_{10}H_4(OH)_2(SO_3H)_2$ 1:8:3:6. Brown paste. Sol. water. Uses—mfr. azo dyes. Grades—tech.; paste (50% min.).

†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

ACID CINNAMIC

$C_9H_8O_2$. M. W. 148.11. Colorless monoclinic scales. M.P., 133°C.; B.P., 300°C.; slightly sol. water, sol. alcohol, ether. Uses: organic synthesis; in perfumery; as a fixative and as a stabilizer in soaps.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

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Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

†Stanetal Corp, Linden, N J

ACID, p-CITRACONIC

†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

ACID CITRIC (Acid Hydroxytricarballylic, Tricarboxylic Acid, 2-Hydroxy-1, 2, 3,-Propane)

$C_6H_4(OH)(COOH)_3H_2O$. Colorless cryst. or white powd., odorless. Natural. Sp. gr. 1.542. M.P. 153°C. Decomposes at 175°C. Sol. water, alcohol, ether. Uses—mfr. citrates, flavoring extracts, confectionery, soft drinks, sweet-meats; as silvering agent; ink ingredient; in engraving; resist in dyeing and calico printing; in medicine. Grades—U.S.P.; cryst.; powd.; C.P.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
†Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Howe & French, 99 Broad St, Boston, Mass	Hancock 3910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600

ACID CITRIC (cont'd)

†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
★†Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0570
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wolfen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

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$C_{10}H_6NH_2SO_3H$. Colorless needles. Slightly sol. water. Uses—mfr. intermediates, diazo, azo dyes. Grades—tech.

Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120

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$C_6H_3(CH_3).(OH).COOH$. M.W. 152. Nearly white, crystaline material, resembling salicylic acid in appearance. B.P., sublimes. Sol. in most organic solvents, slightly sol. water. M.P. 163.0-168.0°C. Uses—as a dye intermediate.

Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
†Dow Chem Co, Midland, Mich	Midland 500
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000

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$CH_3C_6H_4OH$. Straw to brown-red colored liq., phenolic odor. Sp. gr. 1.015 to 1.045. M.P. 80°C. B.P. 188-230°C. Sol. water, ammonia, glycerine, caustic soda, petroleum spirit. Uses—mfr. cresols, disinfectants, sheep dips, flotation, synthetic resins; in medicine; gasoline gum inhibitor, manufacture lubricating oils. Grades 98% dark; 97-99% straw; 98-97% decolorised. Tar acid % minimum, 97%; distillation range°F., 388-405; water, % maximum, 0.5%; phenol minimum %, oil and naphthaline, maximums, %, 0.5%.

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Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0663
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Cyanamid Co, Mineral Dressing Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Atlas Import Co, 510 N Dearborn St, Chicago, Ill	Superior 7-8646
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230

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Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
European Chem Co Inc, 366 Bway, N Y	Beekman 3-6246
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Indoil Chem Co, 910 S Michigan Av, Chicago, Ill	Harrison 7-9200

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U.S.P., Meta-Para, Ortho — or special fractions; to specifications.

CRESYLIC ACIDS:
Reilly produces the entire range of Cresylic Acids — in all standard grades or to buyer's specifications.

TAR ACID OILS:
all grades

PHENOL:
39°C., 39.5°C., 40°C. M.P.
82-84%
90-92%
Or to buyer's specifications.

HIGH BOILING TAR ACIDS

XYLENOLS:
Low-boiling, High-boiling, Symmetrical
1, 2, 4, Xylenol
1, 3, 5, Xylenol
1, 3, 4-Xylenol
1, 4, 2-Xylenol

15 PLANTS *to Serve You*

Reilly COAL TAR PRODUCTS

REILLY TAR & CHEMICAL CORPORATION
Merchants Bank Building, Indianapolis 4, Indiana

500 Fifth Ave. New York 18, N. Y.
2513 S. Damen Ave. Chicago 8, Ill.
St. Louis Park Minneapolis 16, Minn.

(See our other ads. under Coal Tar and Creosote, Coal Tar)

CHAS. PAGE & CO., INC.

CRESYLIC ACID

High Boiling Tar Acids

50 E. 42nd STREET, NEW YORK 17, N. Y.
VA 6-0903 CABLES: NINIPAGA

ACID CRESYLIC (cont'd)

Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa	Atlantic 1-6240
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Oronite Chem Co, 38 Sansome St, San Fran, Calif	Exbrook 2-0923
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0905
Philing Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676

U·S·S Cresylic Acid

Resin Grades · Flotation Grades
Tricresylphosphate Grades

Available in tank cars and 55-gallon drums

COAL CHEMICAL SALES DIVISION
United States Steel Corporation Subsidiaries
71 Broadway, New York 6, N. Y.

COAL CHEMICALS

UNITED STATES STEEL

ACID CRESYLIC (cont'd)

Bingham & Co, Inc, N Y	†Productol Co, Santa Fe Springs, Calif
Cooper, T G, & Co, Inc, Phila, Pa	Simmons Prods Co, Inc, N Y
Crowley Tar Prods Co, Inc, N Y	Tar Residuals, Inc, N Y
Hardy, M W, & Co, Inc, N Y	Timberlake, Frederick H, Phila, Pa
Osborne, E Dewitt; N Y	

ACID, CROTONIC (1-Carboxy-propylene, α-Butenic Acid, Trans-crotonic Acid)

$CH_3CH:CH.COOH$. Colorless cryst. Alpha. Sp. gr. 0.973 M.P. 72°C. B.P. 185°C. Sol. water. Beta. Sp. gr. 1.031. M.P. 15.5°C. Decomposes at 170°C. Uses—mfr. esters, resins; to prevent sedimentation and gelatinization of naphthenate, linoleate, and resinate driers in volatile organic solvents.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
★†Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957

Cresylic Acid

REINHART

Chemical Corporation

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MURRAY HILL 6-8536 • CABLE: RECHEMCORP

crotonic acid

• Since crotonic acid possesses a system of conjugated double bonds, it looms as an important raw material for the plastic and surface-coating industries. Its alkyl esters form interesting copolymers with most of the usual vinyl compounds. Reacted with paint oils, crotonic acid or its esters increase weathering resistance. Crotonic acid has also been used as an intermediate in the preparation of synthetic vitamin A. Available in fiber-drum lots.

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Co.)
KINGSPORT, TENNESSEE

EASTMAN INDUSTRIAL CHEMICALS

Sales Reps in principal cities—see ad in Catalog Section.

Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651
†Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600
United Sterling Corp, 37 E 28 St, N Y	Murray Hill 9-2686

ACID CYANOACETIC (Cyanoethanoic Acid, Malonic Mononitrile)

$CNCH_2COOH$. M.W. 85.06. White crystals. M.P. 145-146°C.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785

CRESYLIC ACID

ALL GRADES and other
Chemicals, Solvents and Coal Tar Products

Republic Chemical Corp.
94 Beekman Street, New York 7
Cable Address: Jaynivrad

· KAY-FRIES ·

★ cyanoacetic acid ★

also
THE AMIDE AND ESTERS

American-British Chemical Supplies, Inc.

180 MADISON AVE. NEW YORK 16, N. Y.
Selling Agents For

KAY FRIES CHEMICALS INC.

Fine Chemicals BPC

CYANOACETIC ACID
CYANOACETAMIDE
CYANOACETIC ESTERS

BENZOL PRODUCTS CO.
237 SOUTH STREET NEWARK 5, N. J.

ACID CYANOACETIC (cont'd)

†Dow Chem Co, Midland, Mich — Midland 500
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Algo Chem Co, Detroit, Mich

ACID DEHYDROACETIC

$CH_3COCHCOCH:C(CH_3)OCO$. M.W. 168. White. Compatible with nitrocellulose, polystyrene, methacrylate, vinylite resins. Uses: intermediate in chemical synthesis, plasticizer.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Dow Chem Co, Midland, Mich — Midland 500
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

ACID DEHYDROCHOLIC

†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
†Fallek Prods Co Inc, 163 Bway, N Y — Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400

†Biorganic Labs, Inc, Bklyn, N Y
†Drug Labs, Phila, Pa

DEHYDROCHOLIC ACID
DESOXYCHOLIC ACID

SPECIAL CHEMICALS DIVISION
Winthrop-Stearns INC.
1450 BROADWAY, NEW YORK 18, N. Y.

ACID, DIALLYLBARBITURIC

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660

ACID DICHLOROACETIC (Bichloroacetic Acid, Urner's Liquid)

$CHCl_2COOH$. Colorless liquid. Sp. gr. 1.5724 (13°C); m.p. -4°C; b.p. 189-191°C. Sol. water, alcohol and ether. Uses—intermediates, pharmaceuticals. Grade—technical.

†Dow Chem Co, Midland, Mich — Midland 500

ACID 2,4-DICHLOROBENZOIC

$C_1{}_3C_6H_3COOH$. M.W. 191. Needles. Sol. ethyl ether, chloroform, benzene, hot water. Sublimes. Uses: synthesis of dyes, pharmaceuticals, other organic chemicals.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ACID 3, 4 DICHLOROBENZOIC

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ACID, DICHLOROPHENOXYACETIC

†Dow Chem Co, Midland, Mich — Midland 500
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880

ACID, 2,4-DICHLOROPHENOXYACETIC (2,4-D)

$C_6H_3(OCH_2COOH)(C1)$-1,2,4. M.W. 221. White to pale yellow crystalline powder. Sol. acetone, ether, methanol; very slightly sol. benzene, carbon tetrachloride, n-heptane, water. Uses: formulating weed killing compounds.

Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Kolker Chem Wks Inc, 80 Lister Av, Newark, N J — Market 2-5458

2, 4-D

A powerful selective herbicide available in the following forms:

- 2,4-D Acid
- Sodium Salt
- Tech. Butyl Ester
- Tech. Isopropyl Ester
- 44% Isopropyl Ester Solution
- 40% Butyl Ester Solution
- Amine Salt Solutions

Kolker Chemical Works Inc.
80 LISTER AVENUE • NEWARK 5, N. J.
Manufacturers of Basic Organic Chemicals

Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Michigan Chem Corp, St, Louis, Michigan — 41
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
†Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473

†Montrose Chem Co, Newark, N J
Pearson Ferguson Chem Co, Kansas City, Mo
Steele, Ben P, Co, N Y
†Thompson Horticultural Chem Corp, Los Angeles, Calif

MONSANTO 2, 4-D

This powerful selective herbicide is available from Monsanto as 2,4-D Acid, 2,4-D Sodium Salt and 2,4-D Isopropyl Ester.

For latest application and technical data, samples and prices, write to

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
1700 South Second Street
St. Louis 4, Mo.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY . . . WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

ACID, DIGLYCOLIC

$HOOCCH_2OCH_2COOH$. M.W. 134.09. White crystalline solid. M.W. 148° C. Sol. water, lower alcohol, acetone, dioxane. Uses: mfg. of alkyd resins, plasticizers, laminating resins; in metal cleaning baths; masking agent for chrome liquors in leather tanning.

†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686

ACID, DIPHENYL ACETIC

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661

ACID, DIPHENYL ACETIC (cont'd)

†Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
†Burks, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959

ACID 2-ETHYLBUTYRIC (Diethylacetic Acid)

$C_6H_{12}O_2$. M.W. 116.16. Colorless liquid. B.P. 194.0°C. Sp. gr. 0.917-0.922 (20°/C_4). Uses—synthesis of esters for use as plasticizers; intermediate in mfr. drugs, dyestuffs, and special chemicals. Reagent grade.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000

ACID, ETHYLENE DIAMINE TETRACETIC ACID, ETHYLENE DIAMINE TETRACETIC

†Abrose Chem Co, 180 Mill St, Cranston, Providence, R I	Williams 1-3000
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
†Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†Versworth Chem Co, Framingham, Mass	

ACID 2-ETHYLHEXOIC

$C_8H_{16}O_2$. M.W. 144.20. Colorless liquid of mild odor. B.P. 226.9° C. Sp. gr. 0.904-0.909 at 20°C. Sol. in most organic solvents. Uses—mfr. plasticizers, detergents, emulsifying agents and in formulation of varnish-driers. Grade—reagent.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
†Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176

ACID FLUOBORIC (Borofluohydric Acid)

HBF_4. M.W. 87.83. Colorl. liq. Sol. water, alcohol. Grades 42% solu.

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa	Atlantic 1-4545
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

ALCOA CHEMICALS

Activated Aluminas
Calcined Aluminas
Low Soda Aluminas
Tabular Aluminas
Hydrated Aluminas
Aluminum Fluoride
Sodium Acid Fluoride

Sodium Fluoride
Fluoboric Acid
Cryolite

ALUMINUM COMPANY OF AMERICA
CHEMICALS DIVISION
608 Gulf Building · Pittsburgh 19, Pa.

ACID, FLUOSULFONIC

HSO_3F. M.W. 100.06. Oily liquid; fumes in moist air. Uses: alkylation catalyst; in prep. of boron trifluoride, alkali salts of fluosulfonic acid, aromatic sulfonyl fluorides and of alkyl fluosulfonates.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220

ACID, FOLIC

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
European Chem Co Inc, 366 Bway, N Y	Beekman 3-6246
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660

ACID FORMIC (Acid Hydrogen Carboxylic, Acid Methanoic)

HCOOH. Colorless liq., pungent odor. Sp. gr. 1.2178. M.P. 8.3°C. B.P. 100.8°C. Sol. water, alcohol, glycerin, ether. Uses—mfr. formates, organic esters, oxalic acid, aromatic formates; silvering agent; deliming agent; preserving hides; mordant in dyeing and printing textiles; fermentation assist; in electro-plating; in medicine. Grades—tech.; U.S.P.; also various strengths in solution.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151

Heyden

FORMIC ACID and SODIUM FORMATE

Heyden Formic Acid, 90% and 85%, serves in many fields, including textile, leather and chemical manufacturing. Shipped in 125 lb. carboys and 500 lb. stainless steel drums.

Sodium Formate finds use in dyeing, tanning and production of water-resistant wallpaper. Shipped in 300 lb. fiber drums.

Technical details on request.

FINE HEYDEN CHEMICALS

HEYDEN CHEMICAL CORPORATION
393 SEVENTH AVE., NEW YORK 1, N.Y.
CHICAGO 6 · PHILADELPHIA 3 · SAN FRANCISCO 11 · DETROIT 1 · RUMFORD 16, R.I.

ACID FORMIC (cont'd)

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Taber 0251
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Gelwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kali Mfg Co, 427 Mayer St, Phila, Pa	Regent 9-2370
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Maxim Chem Co, Inc, 44 Cliff St, N Y	Worth 4-0070
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445

Victor

FORMIC ACID
SODIUM FORMATE

VICTOR CHEMICAL WORKS
141 W. Jackson Blvd., Chicago 4, Illinois

ACID FORMIC (cont'd)

Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Philips Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
†Trojan Powder Co, Allentown, Pa — 45201
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Lotte Chem Co, Inc, Paterson, N J

ACID FUMARIC (Acid Allomalic, Acid Boletic, Acid Butendioic, Acid Lichenic)

$HC(COOH)_2CH$. M.W. 116.03. Colorless small prisms. Sp. gr. 1.635. M.P. 286-287°C. Sublimes over 200°C. Sol. alcohol, hot water, ether. Uses—mfr. intermediates, organic chemicals; as mordant in dyeing textiles. Grades—cryst.; tech.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

ACID FUROIC (Acid Pyromucic)

C_4H_3OCOOH. M.W. 112.08. Light gray solid which forms white crystals from hot water. M.P. 131-3°C. Acidity 99.0-99.5%. Sol. in most common organic solvents; very soluble in hot (90°C.) water. Uses—preparation of furan, halogenated furoic acid, halogenated furans, bactericides, and fungicides. Grades—technical.

Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

†Quaker Oats Co, Chicago, Ill

ACID GALLIC (Acid Trioxybenzoic, Acid Trihydroxybenzoic)

$C_6H_2(OH)_3CO_2H.H_2O$. 3:4:5. Colorless or slightly yellow cryst., needles or prisms. Sp. gr. 1.694. M.P. 222-240°C. with decomposition. Sol. alcohol. Slightly sol. water, ether. Uses—mfr. gallates, pyrogallol, alizarine, thioflavine and gallo-cyanine dyes, writing inks; in medicine; as photographic developer; mordant in dyeing; in engraving; tanning. Grades—U.S.P., tech.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

Manahan Chem Co, Inc, Bklyn, N Y

ACID GAMMA (G Acid, Aminonaphthol Sulfonic Acid, 2:8:6)

$C_{10}H_5(OH)(NH_2)(SO_3H)$. White cryst. Slightly sol. water. Sol. ether, alcohol. Uses—mfr. azo dyes. Grades—tech.

Chemstar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

†Gen Aniline Wks, N Y

ACID, GENTISIC

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660

Panray Corp, N Y

ACID GLUCONIC (Acid Dextronic)

$C_6H_{12}O_7$. M.W. 196.09. Syrup. Sol. water; insol. alcohol. Uses—in medicine, tanning; ingredient of metal polishes. Grades—C.P.; tech.

Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

Bonewitz Chems, Inc, Burlington, Iowa

ACID GLUTAMIC (Aminoglutaric, or Amino-normal pyrotartaric acid)

$COOH.CH_2CH_2CH(NH_2)COOH$. M.W. 147.11. White, crystalline powder. Flat taste, peculiar after-taste. Sol. alkalies and dilute acids. Slightly soluble water, alcohol, benzene, ether. M.P. 202-203°C.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400

Anton-Murray Co, Chicago, Ill — Thompson, Wm T, Co, Los Angeles, Calif
†Huron Milling Co, Inc, N Y

ACID GLUTAMIC HYDROCHLORIDE (Acidulin)

$HOOC(CH_2)_2CH(NH_2)COOH.HCl$; vol. wt. 183.54; white, cryst. solid; on contact with water gives off HCl; Sp. Gr. 1.526; M.P. 202 to 213°C; Sol. in water. Keep dry. Use—Medicine.

Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Anton-Murray Co, Chicago, Ill

ACID GLUTARIC (Normal Pyrotartaric Acid)

$COOHCH_2.CH_2.CH_2COOH$. M.W. 132.09. Colorless, odorless crystals.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550

†Eastern Chem Corp, Newark, N J

ACID GLYCERIC

$C_3H_6O_4$; m.w. 106.1. Colorless syrup-like liquid. Sol. in water, alcohol or ether. Occurs in two stereoisomeric forms as *d*-and *l*-acids. Useful in investigation of muscle physiology.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

ACID GLYCEROPHOSPHORIC

$C_3H_5(OH)_2OPO_3H_2$. M.W. 172.09. Colorless oily liq. M.P.—20° C. Dibasic acid occurring as oily liquid and constituent of lecithins and nerve tissues. Used in medicinal preparations. Uses—mfg. derivatives. Cont.—43 lb. carboys; 5 lb. bottles.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

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E. I. DU PONT DE NEMOURS & CO. (INC.)
WILMINGTON, DEL.

ACID GLYCOLIC

$CH_2OHCOOH$. Colorless crystals. M.p. 78° to 79°C. Sol. water, alcohol, ether. Uses—starting point in mfr. of the menthol and quinine esters of glycolic acid; dyeing cotton fabrics with aniline black; substitute for tartaric acid in printing of cotton fabrics. Grade—technical. Cont.—kegs.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071

Bonewitz Chems, Inc, Burlington, Iowa

ACID H (1—Amino—8 Naphthol—3:6 Disulfonic Acid)

$C_{10}H_4(OH)(NH_2)(SO_3H)_2$. 1:8:3:6. Gray powd. Sol. water, alcohol, ether. Uses—mfr. azo dyes. Grades—tech. (80-85%). Cont.—bbls. (300, 350, 385 lbs.). Tariff. 7c + 40%.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ACID HYDRIODIC (Hydrogen Iodide)

HI. M.W. 127.93. Fuming liq. Sp. gr. 4.3737. M.P. —50.8°C. B.P. —35.5°C. Sol. water. Uses—mfr. iodides, intermediates, pharmaceuticals, dyes, perfumes; as general disinfectant; laboratory reagent; in medicine. Grades—U.S.P. (10% solution); tech. 49 deg. Baume.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ACID HYDROBROMIC (Hydrogen Bromide)

HBr. M.W. 80.92. Colorless or slightly yellow fuming liq. Sp. gr. 2.71 (gas). M.P. —86°C. B.P. —67.0°C. Miscible water, alcohol. Uses—mfr. bromides, intermediates, dyes, perfumes, pharmaceuticals; as laboratory reagent; in photography; medicine. Grades—tech. 48%, 40%, dilute (10%) solutions; U.S.P.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Le Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Michigan Chem Corp, St Louis, Michigan — 41
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ACID HYDROCHLORIC—see Acid Muriatic

ACID HYDROCYANIC (Acid Prussic, Acid Cyanhydric, Hydrogen Cyanide, Formonitrile, HCN)

HCN. M.W. 27.02. Colorless, very volatile liq., bitter almond odor. Sp. gr. 0.9483. M.P. —14°C. B.P. 26.1°C. Sol. water, alcohol, ether. Uses—mfr. intermediates; as disinfectant for soils, plants, fruit and citrus trees, tobacco and stored grains; disinfectant in food plants; in fumigation of buildings; as laboratory reagent; in medicine. Grades—tech; 10% and 5% sol.; U.S.P. (2%).

†Amer Cyanamid Co, Agric Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

ACID HYDROFLUORIC (Acid, Fluorhydric, Hydrogen Fluoride, Acid Pthoric)

HF. M.W. 20.01. Colorless, fuming, corrosive liq. Sp. gr. 0.98 (gas). M.P. —92.3°C. B.P. 19.44°C. Sol. water. Uses—mfr. fluorides, inorganic chemicals, ashless filter paper; in etching glass; etching physical instruments; fermenting yeast; treating ceramics; purifying sugar; as laboratory reagent; electropinting reagent; antiseptic in brewing. Grades—C.P.; fuming; tech.; 62%, 52%, 48%, 40%, 30%; dilute (2%).

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa — Atlantic 1-4545
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Coburn, C B.Co, 63 Market St, Lowell, Mass — Lowell 9331
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kinn, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
La Pine, Arthur S. & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 3-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430

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Cleveland 6, Ohio
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HYDROFLUORIC ACID
Aqueous and Anhydrous
All commercial strengths . . . . Also, a complete line of fluorides

ACID HYDROFLUORIC (cont'd)

★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Cascade Chem Co, Seattle, Wash
Commercial Chems, Inc, Buffalo, N Y
†Con Chem Industries, Inc, San Fran, Calif
Globe Chem Co, Cincinnati, O
Leidy Chems Corp, Baltimore, Md
†Nyotex Chems, Inc, Houston, Texas
Wagner, A T, Co, Detroit, Mich

ACID HYDROFLUOSILICIC (Sand Acid, Hydrosilicofluoric Acid, Silicofluoric Acid, Fluosilicic Acid)

H_2SiF_6. Transparent, colorless, fuming liq. Decomposes on heating Sol water. Uses—mfr. technical paints; in treating ceramic products; electro-plating; hardening cement; cement products; gypsum; concrete; as general disinfectant; preservative wood; oil pigments. Grades—C.P.; (35%).

†Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
†Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214

†Baugh Chem Co, Baltimore, Md

ACID HYDROXYACETIC—see Acid Glycolic

ACID, p-HYDROXYBENZOIC

†Carwin Co, Stiles Lane, North Haven, Conn — New Haven 2-2161
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

Panray Corp, N Y

ACID, beta-HYDROXYBUTRIC

Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

ACID, beta-HYDROXY NAPHTHOIC (3-Hydroxy-2-Naphthoic Acid)

$C_{10}H_6OHCOOH$. Yellow rhombic leaflets. M.p. 217.5° to 219°C. Sol. alcohol and ether. Uses—dyes. Grade—technical.

Beta Hydroxy Naphthoic Acid
"B. O. N."
The Carwin Company specializes in the manufacture of quality intermediates.
Other Products include:
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Dichlorbenzidine and Dianisidine
Benzidine and o-Tolidine
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beta oxy naphthoic acid (BON)

• Eastman beta oxy naphthoic acid is characterized by uniform high quality. Widely used as an acetate black developer, it also serves as a raw material for the manufacture of various naphthol couplers. Available in drum lots.

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ACID, beta-HYDROXY NAPTHOIC (cont'd)

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
†Carwin Co, Stiles Lane, North Haven, Conn	New Haven 2-2161
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y	Lexington 2-5806
★†Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957

ACID, HYDROXYQUINOLINE SULFATE

†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404

ACID, HYDROXYSTEARIC

Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8618

ACID, INDOLEACETIC

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
†Winthrop-Stearns Inc, 1450 Bway, N Y	La 4-6400

ACID IODIC

HIO_3. M.W. 175.93. Colorless or slightly yellow crystals or powder. Uses—as oxidizer in analysis or synthesis, medicine.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

ACID, IODOACETIC

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†Jorala Prods Co, 894 Whittier St, Bronx, N Y	Dayton 3-1137
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818
Panray Corp, N Y	

ACID ISOBUTYRIC

$(CH_3)_2CH.COOH$. Colorless liq. B.P., 154.4 C.; F.P.,-47 C.; Sp. gr., 0.946-0.950 at 20/20C. Uses: mfr. of esters for solvents, flavors, and perfume bases; as a disinfecting agent; in varnish; in deliming hides; as a tanning agent.

DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Sumner Chem Co, Inc, 52 Wall St, N Y	Digby 4-3880

ACID ISOVALERIC (Acid Isobutylformic)

$CH_2CH(CH_3)CH_2COOH$. M.W. 102.08. Colorless liq. B.P. 176°C. Sp. gr. 0.931. Slightly sol. water; misc. alcohol, ether. Uses—syntheses flavors, perfumes. Cont.—bottles, carboys. See also acid valeric.

†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†Sumner Chem Co, Inc, 52 Wall St, N Y	Digby 4-3880

†Trubek Labs, Inc, E Rutherford, N J

ACID ITACONIC

$CH_2:C(COOH)CH_2COOH$. M.W. 130. White, odorless crystals. Sol. alcohols, acetone. Uses: resins, chemical intermediate.

Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

ACID J (Acid 2—Amino—5—Naphthol—7—Sulfonic)

$C_{10}H_9NO_4S$. Gray or white cryst. Sol. hot water. Sparingly sol. cold water. Uses—mfr. diazo dyestuffs. Grades—tech.

Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Fisher Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-2587
L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

†Gen Aniline Wks, N Y

ACID, KETOGLUTARIC

†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

†Eastern Chem Corp, Newark, N J

ACID KOCH (Acid 1—Naphthylamine 3:6:8 Trisulfonic)

$C_{10}H_4(NH_2)(SO_3H)_3$ 1:3:6:8. Light col. paste. Sol. water. Uses—mfr. dyestuffs. Grades—tech.; paste (45% min.)

†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

ACID LACTIC (Acid Alphahydroxypropionic, Acid Ethylidenelactic, Milk Acid)

$CH_3CHOHCOOH$. Colorless or yellowish syrupy liq. Sp. gr. 1.2485. M.P. 18°C. B.P. 119°C. Sol. water, alcohol, ether. Insol. benzol, carbon bisulfide. Uses—mfr. lactates, organic esters, pharmaceuticals, bread, fruit essences, extracts, syrups, confectionery, yeast; as laboratory reagent; finishing agent; discharge in Turkey red dyeing; flux for soft solder; assist in dyeing silks and other textiles; mordant in dyeing and calico printing; in deliming hides; vegetable tanning; bating and plumping feathers; hat dyeing; in medicine. Grades—C.P.; U.S.P. (85%); U.S.P. VIII (75%); dilute (15%); tech., 22%, 44%, 60%, 80%, light and dark.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-5201
†Amer Maize Prods Co, 100 E 42 St, N Y	Murray Hill 3-9200
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970

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50% and 80%

TECHNICAL LACTIC ACID
44% and 80%

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FOOD PROCESSING POTASSIUM LACTATE

FOOD PROCESSING SODIUM LACTATE

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ACID LACTIC (cont'd)

Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Einar & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
European Chem Co Inc, 366 Bway, N Y	Beekman 3-6246
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3313
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

Buffalo Extract & Supply Co, Buffalo, N Y — Sagamore Color & Chem Co, Boston, Mass

ACID LAURENT'S (Acid—1—Nitronaphthalene: 5—Sulfonic)

$C_{10}H_5(NO_2)(SO_3H)$. Yellow needles. Sol. water, alcohol, ether. Uses—mfr. azo dyes. Grades—tech.

Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland	
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

†Gen Aniline Wks, N Y

ACID LAURIC (Acid Laurinic, Acid Laurostearic)

$C_{12}H_{24}O_2$. M.W. 200.3. Fatty acid derived from laurel. Colorless needles. M.P. 47°C. B.P. 228°C. Insol. water, sol. alcohol.

†Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
†General Mills, Inc, Chem Div, 400 2 Av S, Minneapolis, Minn	Atlantic 1144
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
McAdam, T F, Inc, 125 Broad St, N Y	Digby 9-3525
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
†Woburn Chem Corp, Harrison, N J	Kearny 2-3300
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383

†El Dorado Oil Wks, Oakland, Calif — Trask, Arthur C, Co, Chicago, Ill

ACID LEVULINIC (Beta-acetopropionic Acid, Oxopentanoic Acid)

$CH_3{-}CO{-}(CH_2){-}COOH$. Colorless leaflets. M.P. 33°C. B.P. 245-246°C. Sp. gr. 1.137 at 24°C. Sol. water, alcohol, ether. Uses—mfr. esters, medicinals. Grades—tech. (brown liquid), 98-99% acid

†Chemo Pure Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†Staley, A E, Mfg Co, Decatur, Ill	4141

ACID LINOLEIC (Acid Linolic, Acid Octadecadienoic)

$C_{17}H_{31}COOH$. M.W. 280.25. Straw colored liq. Fatty acid occurring as glyceride in all drying oils. Sp. gr. 0.903. M.P. —18°C. B.P. 230°C. Sol. alcohol, ether, chloroform, benzene; insol. water. Uses—mfr. special emulsifiers, driers and soaps.

†Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†General Mills, Inc, Chem Div, 400 2 Av S, Minneapolis, Minn	Atlantic 1144
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
†Woburn Chem Corp, Harrison, N J	Kearny 2-3300
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383

ACID MALEIC (Acid Maleinic, Acid Butendioic, Ethylene Dicarboxylic Acid)

$COOH(CH){=}CHCOOH$. M.W. 116.03. Colorless cryst. Sp. gr. 1.590. M.P. 130.5°C. B.P. 135°C.—d. Sol. water, alcohol, glac. acetic acid, ether. Uses—mfr. intermediates, organic chemicals; as assistant for dyeing and printing textiles. Grades—tech.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

ACID MALIC (Levo—Hydroxysuccinic Acid, Apple Acid, Oxyethylene-succinic Acid)

$COOHCH_2CH(OH)COOH$. M.W. 134.05. Colorless, deliq. cryst. Sp. gr. 1.596. M.P. 100°C. Decomposes at 140-150°C. Sol. water. Slightly sol. alcohol, ether. Uses—mfr. intermediates, salts, esters, in wine manufacture to age it by removing tartrates, pharmaceuticals; in medicine. Grades—tech., active and inactive.

Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

ACID MALONIC (Methanedicarboxylic Acid)

$C_3H_4O_4$. M.W. 104.06. Colorless crystals, triclinic system. M.P. 186.6°C. Sol. in water, alcohol, and ether. Uses—mfr. intermediates in organic synthesis; mfr. pharmaceutical chemicals.

†Dow Chem Co, Midland, Mich	Midland 500
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

†Var-Lac-Old Chem Co, N Y

ACID, MANDELIC

$C_6H_5CH(OH)COOH$. Large, transparent crystals. M.P. 118°C. Sol. ether, slightly sol. water, insol. alcohol. Uses—organic synthesis.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Hexagon Labs, Inc, 3536 Pearlree Av, Bronx, N Y	Fairbanks 4-7550
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200

ACID, MESACONIC

†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

ACID, METHACRYLIC

$CH_2{:}C{-}(CH_3){-}(CO_2)H$. M.W. 86. Uses: polymerization.

†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860

DU PONT
REG. U.S. PAT. OFF.
Methacrylic Acid and Esters
(Methyl — Ethyl — n-Butyl — Isobutyl Monomers)
5-gal. containers; 55-gal. drums
"Hypalon" Synthetic Resins
(Methacrylic Ester Polymers)
various sizes of fiber containers
Sales Offices in: New York, Chicago, St. Louis
Polychemicals DEPARTMENT
E. I. DU PONT DE NEMOURS & CO. (INC.)
WILMINGTON, DEL.

ACID, METHYLENE DISALICYLIC

†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176

ACID MIXED (Acid Nitrating)

A mixture of nitric and sulfuric acids of known composition, sold on the basis of N and S content. Typical mixtures are: nitric 36%—sulfuric 61%; nitric 45%—sulfuric 50%; nitric 70%—sulfuric 25%. Uses—mfr. dyes, T.N.T., smokeless powd., nitroglycerine, gun-cotton, picric acid, nitro-sugar, nitro-starch; as general nitrating agent. Grades—varying mixtures of nitric acid, sulfuric acid and water.

ACID MIXED (cont'd)

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Cornwell Chem Corp, Cornwells Hgts, Pa — Cornwells 0302
†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
†Woburn Chem Corp, Harrison, N J — Kearny 2-3300

ACID MOLYBDIC (Molybdenum Anhydride, Molybdenum Trioxide)

H_2MoO_4. Composition variable. White or yellow powd. Sp. gr. 3.1124 (18°C.). Loses water at 70°C. Slightly sol. water. Sol. ammonia, alkalies. Uses—mfr. molybdates, molybdenum salts, molybdenum metal as catalyst; blue pigment in ceramic glazes; paint pigment; laboratory reagent; electro-coloring metals; in medicine. Grades—85% pure; C.P., about 99.5% MoO_3; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Climax Molybdenum Co, N Y
†North Metal & Chem Co, York, Pa
†Shattuck, S W, Chem Co, Denver, Colo

ACID MONOSULFONIC F. (Cassella F. Acid, 2—Naphthylamine—7—Sulfonic Acid, Delta Acid, F Acid, Bayer's Acid)

$C_{10}H_6(NH_2)SO_3H$. 2:7. Colorless cryst. Sol. water, alcohol, ether. Uses—mfr. azo dyes. Grades—tech.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fatlek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

ACID MUCIC (Acid Saccharolactic, Tetrahydroxy-hexanedioic Acid)

$(OH)_4C_4H_4(COOH)_2$. Crystalline powd. M.P. 213°C. Sol. hot water, dilute alkalies. Insol. alcohol, cold water. Uses—mfr. intermediates, organic chemicals, baking powd., effervescent salts. Grades—tech.

DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860

†Eastern Chem Corp, Newark, N J

CCI

MURIATIC ACID

18°Bé. and 20°Bé.

Carboys or tank car quantities

CONSOLIDATED CHEMICAL INDUSTRIES INC.

ADDRESS INQUIRIES TO: 640 MELLIE ESPERSON BLDG., HOUSTON 2, TEXAS OR 630 FIFTH AVENUE, NEW YORK 20, N. Y.

CCI

ACID MURIATIC (Acid Hydrochloric, Acid Chlorohydric, (1)

HCl. M.W. 36.46. Colorless or slightly yellow solution of gas in water, pungent odor. Sp. gr. 1.194 at 86.8°C. M.P. —111.0°C. Sol. water, alcohol, ether. Uses—mfr. chlorides, acids, carbon dioxide, chlorine, sal ammoniac, inorganic preparations, organic and intermediate chemicals, aniline, resorcin, pharmaceutical, synth. perfumes, azo dyes, coal tar colors, pyrotechnic compositions, phosphate from bones, bone and animal glues; treating oils, fats and tallow; purifying sand and clay; chrome tanning; dehairing hides; etching, pickling and mercerizing agent; laboratory reagent; electro-plating; process engraving; reclaiming rubber; purifying spent bone-black; sour in bleaching textiles; assist in dyeing and printing; in medicine. Grades—tech. 16, 18, 20, and 22 deg. Baume; C.P.; U.S.P.; white.

ACIDS

Muriatic
Nitric
Sulfuric
Mixed

All grades and strengths

AMERICAN Cyanamid COMPANY

30 Rockefeller Plaza, New York 20, N. Y.

ACID MURIATIC (cont'd)

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Coburn, C B.Co, 63 Market St, Lowell, Mass — Lowell 9331
†Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas — CA2371
†Cornwell Chem Corp, Cornwells Hgts, Pa — Cornwells 0302
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Lo 7-4650
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175

HYDROCHLORIC ACID

DOW

THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products
Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg. Detroit 2; 161 Spring St. Bldg., Atlanta 3.
See listing ad for other products

MURIATIC ACID

Commercial—"Hooker White"

(Free from Arsenic)

CARBOYS • TANK CARS

"Hooker White" and commercial grades both enjoy a reputation for high uniformity. Hooker produces a broad line of heavy chemicals, intermediates and solvents . . . can produce many others. Consultation is invited.

HOOKER ELECTROCHEMICAL CO.

4715 Buffalo Ave., Niagara Falls, New York

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HOOKER CHEMICALS

For listings of other products see Catalog Section ad. ®

ACID MURIATIC (cont'd)

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y	6655
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 85 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Niagara Alkali Co, 60 E 42 St, N Y	Murray Hill 2-8090
Onalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa	McKeesport 4-4278
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811

OLEUM

10%—20%—25%—30%—40%

MURIATIC ACID

18° 20°

tankcars, tankwagons, carboys

Cornwell Chemical Corporation

CORNWELLS HEIGHTS, PA.

Telephone: Torresdale (Phila.) 4-7358, Cornwells 0302 • Cable: SEECHEM

ACID MURIATIC (cont'd)

Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
†Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
★†Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
†Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Washing-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y	Stillwell 4-0500
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700
Bartlett Chems, Inc, New Orleans, La	Leidy Chems Corp, Baltimore, Md
†Bay Chem Co, New Orleans, La	Lotte Chem Co, Inc, Paterson, N J
Cascade Chem Co, Seattle, Wash	Minnesota Chem Co, St Paul, Minn
Central Illinois Labs, Inc, Peoria, Ill	Monarch Chem Wks, Inc, Omaha, Neb
Chem Supply Co, Neenah, Wisc	Seidler Chem & Supply Co, Newark, N J
Collier, H C, & Sons, Binghamton, N Y	†Solvent Chem Co, Inc, Malden, Mass
†Con Chem Industries, Inc, San Fran, Calif	†Standard Chlorine Chem Co, Inc, So Kearny, N J
Detroit Chem Wks, Detroit, Mich	Vaughn Chem Co, Tulsa, Okla
†Frontier Chem Co, Midland, Texas	Warren-Douglas Chem Co, Inc, Omaha, Neb
Globe Chem Co, Cincinnati, O	Western Chem & Mfg Co, Los Angeles, Calif
H & W Chems, Inc, Rochester, NY	White Star Chem Corp, Jacksonville, Fla
Ideal Chem & Supply Co, Memphis, Tenn	
Industrial Chem Co, Dayton, O	
†Jordan Co, Chicago, Ill	

MURIATIC ACID 20°

Produced by TENNESSEE PRODUCTS & CHEMICAL Corporation

General Offices: Nashville 3, Tenn

Eastern Sales Office: 350 Fifth Ave., New York 1, N. Y.

ACID MYRISTIC

$CH_3(CH_2)_{12}COOH$. M.W. 228.22. Col. leaf crys. Sp. gr. 0.858 (60°C.). M.P. 58°C. B.P. 250.5 (100 mm.). Insol. water. Slightly sol. alcohol, ether. Acid No. 237-248. Sap. No. 240-6. Iodine No. 7-13. Titre 42-6. Uses—soaps, cosmetics. Grades—tech; pure.

Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
†Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 3-2712
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
McAdam, T F, Inc, 125 Broad St, N Y	Digby 9-3525
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†United Sterling Corp, 37 E 28 St, N Y	Murray Hill 9-2686
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383

†El Dorado Oil Wks, Oakland, Calif

ACID NAPHTHALENEACETIC (1 Naphthyl Acetic Acid)

$C_{12}H_{10}O_2$. M.W. 186.20. Odorless white crystals. M.P. 132.4—135.3°C.

†Amer Cyanamid Co, Agric Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Dow Chem Co, Midland, Mich	Midland 500
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†Fisher Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-2587
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

ACID, beta-NAPHTHALENE SULFONIC

$C_{10}H_8SO_3.H_2O$. M.W. 226. White to slightly brownish, crystalline leaflets. Very hygroscopic. Uses: in oil analytical chemistry.

Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O	Elmhurst 1300
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

ACID NAPHTHENIC (Acid Hexahydrobenzoic)

$C_6H_{11}COOH$. M.W. 128.1. Colorless crystals. Sp. gr. 1.04. M.P. 31°C. B.P. 232°C. Slightly sol. in water. Acidity mgr. KOH min—2-3. Water (det. by distillation ASTM), 0.2% max. Color

ORONITE CHEMICAL COMPANY

THE NAME TO WATCH IN CHEMICALS

REG. U.S. PAT. OFF.

NAPHTHENIC ACIDS

- Cresylic Acids
- Wetting Agents
- Sodium Sulfonates
- Polybutenes
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38 Sansome Street, San Francisco 4, Calif. • 30 Rockefeller Plaza, New York 20, N.Y.
Standard Oil Bldg., Los Angeles 15, Calif. • 400 S. Michigan Avenue, Chicago 5, Ill.
824 Whitney Bldg., New Orleans 12, La.

ACID NAPHTHENIC (cont'd)

"Union" max. 6. Uses—mfr. paint and varnish driers, dry cleaning soaps, special lubricating oils.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
Elbert & Co, Inc, 2 Bway, N Y	Digby 9-2670
†Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Oronite Chem Co, 38 Sansome St, San Fran, Calif	Exbrook 2-0923
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
†Petroleum By-Prods & Chem Co, 15 Whitehall St, N Y	Bowling Green 9-4991
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Kruger, L, & Co, Inc, N Y	Stark, J W, Co, Detroit, Mich

NAPHTHENIC ACID
PETROLEUM SULPHONATES
AMORPHOUS WAXES
MINERAL SPIRITS
PETROLEUM RESINS

PETROLEUM
BY-PRODUCTS & CHEMICAL CO.

15 WHITEHALL STREET
NEW YORK 4, N.Y.
Phone: Bowling Green 9-4991

ACID NAPHTHIONIC (1—Aminonaphthalene—4—Sulfonic Acid, 4—Amino—1—Naphthalene Sulfonic Acid)

$C_{10}H_6(NH_2)SO_3H.\frac{1}{2}H_2O$. 1:4. M.W. 232.15. White cryst. or powd. Decomposes on heating. Sol. ammonia, alkalies; slightly sol. water, alcohol; insol. ether. Uses—mfr. azo dyes. Grades—tech.

ACID NAPHTHIONIC (cont'd)

†Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O	Elmhurst 1300
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

ACID, 2-NAPHTHOL-6-NAPHTHOIC

†Carwin Co, Stiles Lane, North Haven, Conn	New Haven 2-2161

ACID, NAPHTHOXY ACETIC

†Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959

ACID, beta-NAPHTHOXYACETIC

$C_{10}H_7(OCH_2COOH)$-2. M.W. 202.2. Light gray crystalline powder. Very soluble in methanol.

†Dow Chem Co, Midland, Mich	Midland 500
†Fisher Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-2587
†Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†Thompson Horticultural Chem Corp, Los Angeles, Calif	

ACID NEVILLE & WINTHER'S (1:4 Naphtholsulfonic Acid, Alpha-Naphthol Sulfonic Acid)

$C_{10}H_8O_4S$. 1:4. Transparent plates. M.P. 170°C. Sol. water, alcohol, ether. Uses—mfr. azo dyes. Grades—tech; paste; powd. (65-70%).

†Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

ACID NICOTINIC (3-Pyridinecarboxylic Acid)

C_5H_4NCOOH. M.W. 123.11. White crystalline powder. M.P. 234-237°C.

NIACIN

(NICOTINIC ACID U.S.P.)

In 50 Kilo. and 10 Kilo. Fibre Drums and 5 Kilo. Cartons and 1 Kilo. Bottles

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ALLIED CHEMICAL & DYE CORPORATION
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Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Amer Quinine Co, 15 William St, N Y	Hanover 2-7983
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Carus Chem Co Inc, Union & 8 Sts, La Salle, Ill	La Salle 1500
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Vitamins Inc, 809 W 58 St, Chicago, Ill	Normal 2727

ACID NICOTINIC DIETHYLAMIDO (Nikethamide)

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
Hexagon Labs, Inc, 3536 Pearlree Av, Bronx, N Y	Fairbanks 4-7550
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176

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J. T. BAKER CHEMICAL CO.
PHILLIPSBURG, N. J.
New York Philadelphia Chicago

ACID NITRIC (cont'd)

Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guain St, Detroit, Mich — Le 7-4650
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8580

ACID NITRIC (Aqua Fortis, Hydrogen Nitrate, Acid Azotic)

HNO_3. M.W. 63.02. Colorless or yellowish, fuming liq. Sp. gr. 1.502. M.P. —42°C. B.P. 86°C. Miscible water. Uses—mfr. sulfuric acid, metallic nitrates, aqua regia, phosphoric and oxalic acids, nitro derivatives of benzene, naphthalene, anthracene and derivatives, synth. drugs, camphor, azo, diazo and aniline dyes, nitroglycerine, Berlin blue, nitrocellulose, nitrostarch, T.N.T., picric acid, hats, Celluloid, rubber, rubber substitutes, rayon; as nitrating and pickling agent; laboratory reagent; metallurgical solvent; assist in dyeing silks; separating gold and silver; gilding brass; engraving and etching steel; electro-plating; dyeing furs; in engraving; in medicine. Grades—U.S.P.; C.P. (Sp. gr. 1.403); commercial: 44,42,40, 38, 36 deg. Baume: Aqua Fortis in same strengths; C.P

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Coburn, C B Co, 63 Market St, Lowell, Mass — Lowell 9331
†Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas — CA2371
†Cornwell Chem Corp, Cornwells Hgts, Pa — Cornwells 0302

CCI

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Commercial or Engravers Quality 40°-42° Bé.

Packed in 8½ Gallon Stainless Steel Drums, 13 Gallon Carboys, LCL or carload quantities

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Cornwell Chemical Corporation
CORNWELLS HEIGHTS, PA.
Telephone: Torrasdale (Phila.) 4-7358, Cornwells 0302 - Cable: SEECHEM

Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7767
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2873
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

†Apache Powder Co, Benson, Ariz
Bartlett Chems, Inc, New Orleans, La
Cascade Chem Co, Seattle, Wash
Collier, H C, & Sons, Binghamton, N Y
Detroit Chem Wks, Detroit, Mich
Globe Chem Co, Cincinnati, O
Industrial Chem Co, Dayton, O
Leidy Chems Corp, Baltimore, Md
Lotte Chem Co, Inc, Paterson, N J
Seidler Chem & Supply Co, Newark, N J

ACID-p-NITRO BENZOIC (Nitrobenzylic Acid)

$C_6H_4COOH.NO_2$. M.W. 167.08. Pale yellowish, bitter odorless crystals or powder. Sol. hot water, acetone, ether, alcohol. M.P. 238°C. Mfr. intermediates. Chief raw material for mfg. procaine.

†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870

ACID NUCLEIC

Yellowish-white powder, slight odor of yeast. Uses—medicine.

Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Meyer, Herman, Drug Co, P O Box 198, Richmond Hill, N Y — Virginia 9-6176
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

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ACID OLEIC (Acid Elaidic)

$C_8H_{17}CHCH(CH_2)_7COOH$. M.W. 282.27. Col. needles. Sp. gr. 0.895. M.P. 14°C. B.P. 286°C. (100 mm.). Insol. water. Sol. ether. Slightly sol. alcohol. Uses—mfr. soap, oleates, polishing compounds; oiling wool; medicinals. Grades—tech., U.S.P., C.P.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Cyanamid Co, Mineral Dressing Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Binney & Smith Co, 41 E 42 St, N Y	Murray Hill 2-1960
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Darling & Co, 4204 S Ashland Av, Chicago, Ill	Yards 7-3000
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Drew, E F, & Co Inc, 15 E 26 St N Y	Murray Hill 6-2800
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Gross, A, & Co, 295 Madison Av, N Y	Murray Hill 3-8250
Hardesty, W C, Co, Inc, 41 E 42 St, N Y	Murray Hill 2-1920
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Uhe, George, Co, Inc, 75 5 Av, N Y	Watkins 9-0870
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Will & Baumer Candle Co, Inc, Park St, Syracuse, N Y	Syracuse 2-0411
†Woburn Chem Corp, Harrison, N J	Kearny 2-3300

†Celina Stearic Acid Co, Celina, O
Drouillard, J C, Co, Cleveland, O
Rimco Trading Corp, N Y
Schibley & Ossmann, Inc, Cleveland, O
†Southern Cotton Oil Co, N Y
Stark, J W, Co, Detroit, Mich
†Swift & Co, Chicago, Ill

ACID, OSMIC (Osmic Tetroxide)

OsO_4. M.W. 255.5. Colorless to slightly yellow crystals. Uses: catalyst.

Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6575
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill	Randolph 6-0232
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

ACID OXALIC (Acid Ethandioic)

$CO_2HCO_2H.2H_2O$. M.W. 126.05. Colorless, odorless cryst. Sp. gr. 1.653. M.P. 101.5°C. Sol. water, alcohol, ether. Uses—mfr. glycerin, pure dextrin, cream of tartar, intermediates, dyestuffs, malachite green, diphenylamine blue, pyrotechnics, glues, writing and printing inks, blue ink, metal and shoe polishes, blue print paper, Celluloid, rayon; marble, metal and coal cleanser; purifying tartaric acid and stearine; as laboratory reagent; tanning agent; bleaching straw; rust and stain remover; laundry detergent; mordant in dyeing and printing textiles; discharge in indigo printing and dyeing; bleaching flax; accelerating chroming of wool; in engraving; treating rubber. Very poisonous. Grades—C.P.; tech.; cryst.; powd.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100

ACID OXALIC (cont'd)

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0995
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fazey & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y	Murray Hill3-8350
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300

OLDBURY ELECTRO-CHEMICAL COMPANY

OXALIC ACID

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POTASSIUM PERCHLORATE

POTASSIUM CHLORATE

PHOSPHORUS (Yellow or White)

SODIUM CHLORATE

PHOSPHORUS OXYCHLORIDE

PHOSPHORUS PENTACHLORIDE

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PHOSPHORUS PENTASULFIDE

PHOSPHORIC ANHYDRIDE

PHOSPHORIC ACID 85% NF VIII

HYPOPHOSPHITES

ZINC PHOSPHIDE

PHOSPHOROUS ACID

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NEW YORK OFFICE
19 Rector St. New York 6, N. Y.

Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Oldbury Electro Chem Co, 19 Rector St, N Y	Digby 4-1668
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650

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ACID OXALIC (cont'd)

Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y	Stillwell 4-0500
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
Interboro Chem Co, N Y	Slater-Robbins, Inc, Long Is City, N Y
Murray-Williams Color & Chem Co, Maplewood, N J	

ACID PALMITIC (Palmitinic Acid, Hexadecylic Acid, Cetylic Acid, Ethalic Acid)

$C_{15}H_{31}COOH$. M.W. 256.25. White cryst. powd. or colorless needle cryst. Sp. gr. 0.866. M.P. 64°C. B.P. 359-59°C.d. Sol. easily in hot, slightly in cold alcohol, ether; insol. water. Uses—mfr. soap; thickening lub. oils; waterproofing textiles, fabrics. Made from spermaceti by saponification.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
†Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†General Mills, Inc, Chem Div, 400 2 Av S, Minneapolis, Minn	Atlantic 1144
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y	Beekman 3-3162
†United Sterling Corp, 37 E 28 St, N Y	Murray Hill 9-2686
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383

ACID, PANTOTHENIC

$C_9H_{17}O_5$. Filterate factor in vitamin B complex. Prevents dermatitis in chicks. Reported to be helpful in curing pellagra in humans and graying hair in rats. Widely distributed in plant and animal tissues and apparently essential for cell growth. Present in rice bran, peanut meal, and yeast.

McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660

ACID, PELARGONIC

$CH_3(CH_2)_7COOH$. M.W. 158. Sol. alcohol, ether. Light yellow; strong characteristic odor. Uses: mfg. of plasticizers, pharmaceuticals, synthetic flavors, odors.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
†United Sterling Corp, 37 E 28 St, N Y	Murray Hill 9-2686

ACID, PERACETIC, 40%

Becco Sales Corp, Buffalo, N Y	Bedford 8300
†Buffalo Electro-Chem Co, Inc, Buffalo, N Y	Bedford 8300

ACID, PERCHLORATE

†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

ACID PERCHLORIC (Fraude's Reagent)

$HClO_4$. Colorless liq. Sp. gr. 1.764. B.P. 39°C. (56 mm.). Sol. water. Uses—mfr. ester derivatives, monochlorohydrin perchlorate, explosives, matches; as laboratory reagent; electroplating with lead; in medicine. Grades—tech., strength of solution 6-20%; C.P.

ACID PERCHLORIC (cont'd)

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

ACID PERI (Acid I—Naphthylamine—8—Sulfonic)

$C_{10}H_5(NH_2)(SO_3H)$. 1:8. Light gray powd., lumps. Sol. water. Uses—mfr. azo dyes. Grades—tech. (97% min.).

Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland	

ACID, PERIODIC

HIO_4. M.W. 192. Uses: strong oxidizing agent for analyses.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

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PERCHLORIC ACID
PERIODIC ACID
The G. Frederick Smith Chemical Company
COLUMBUS, OHIO
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ACID PHENAL SULFONIC (Sulphocarbolic Acid, Sulphophenylic Acid, Sozolic Acid)

$OH.C_6H_4.SO_3H$. M.W. 174.17. Yellow liquid, becomes brown on exposure to air. Cont.: drums. Uses—water analysis, mfr. intermediates and dyes, tanning, pharmaceuticals, drugs, in electrodeposition of tin.

Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
†Dow Chem Co, Midland, Mich	Midland 500
†Einar & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa	Atlantic 1-6240
★†Monsante Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

ACID PHENOXY ACETIC (Glycolic Acid Phenyl Ether)

$C_6H_5OCH_2COOH$. Mol. wt. 152.14; colorless plates or needles. M.p. 99°C; b.p. 285°C, slightly decomposes. Sol. water, alcohol, ether, acetic acid, benzene. Use—reagent chemical.

†Dow Chem Co, Midland, Mich	Midland 500
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

ACID PHENYL ACETIC

$C_6H_5O_2$. M.W. 136.10. White crystals with honey-rose odor. M.P., 76°C. Uses—fixative for perfumes in many floral perfumes.

Fine Chemicals BPC
PHENYL ACETIC ACID
PHENYLACETAMIDE
BETA PHENYL ETHYL AMINE
BENZOL PRODUCTS CO.
237 SOUTH STREET NEWARK 5, N. J.

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ACID PHENYL ACETIC (cont'd)

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Failek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5939
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
Bodman, F L, Inc, Phila, Pa	†Trubek Labs, Inc, E Rutherford, N J

ACID PHENYL PERI (Acid I—Phenylnaphthylamine—8—Sulfonic)

$C_6H_5(NHC_6H_5)(SO_3H)$ 1:8. Greenish crys. paste. Sol. water. Uses—mfr. azo dyes. Grades—tech. paste (25% min.).

Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121

ACID PHENYLPROPIOLIC (Phenylacetylene Carboxylic Acid)

$C_6H_5 \cdot C{\equiv}C \cdot COOH$. M.W. 146.14. White crystalline solid. Use: organic syntheses.

†Farchan Research Labs, 609 E 127 St, Cleveland, O	Glenville 1-8749

ACID PHOSPHOMOLYBDIC

$H_3PO_4.12MoO_3.12H_2O$. M.W. 2042.3. Yel. Crys. Sol. water. Uses—weighting silk, leather; mordanting; tests for alkaloids, rare earths; mfr. insol. color lakes. Grades—C.P., pure.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200

PHOSPHATES *For All Purposes*

Sodium Phosphate, Dibasic, Anhydrous
Sodium Phosphate, Dibasic, Recrystallized
Sodium Phosphate, Tribasic
Sodium Tripoly Phosphate
Tetrasodium Pyrophosphate, Anhydrous

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ALLIED CHEMICAL & DYE CORPORATION

40 RECTOR STREET, NEW YORK 6, N. Y.

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ACID PHOSPHORIC (Orthophosphoric Acid)

H_3PO_4. Colorless, syrupy liq. M.W. 98.04. Sp. gr. 1.834. M.P. 42.35°C. Sol. water. Uses—mfr. phosphates, intermediate chemicals, hydrogen peroxide, glycerophosphates, pharmaceuticals, dyes, incandescent light filaments, pyrotechnics, ammonium phosphate fertilizers; as acidulating agent in jellies, essences, soft drinks and mineral waters; laboratory reagent; pickling and rustproofing agent; latex coagulant; ceramic vitrifying agent and flux; sugar defectant and clarifier; mordant in dyeing and printing textiles; brightener of silks; in engraving; in medicine. Grades—tech. (50%); 75%, 85% paste and syrup; U.S.P. syrupy (90%); U.S.P. dilute (10%); Pure Food Grade (50 to 75% H_3PO_4); glacial sticks; C.P.

PHOSPHORIC ACID

85% USP Syrupy

Made from pure Elemental Phosphorus of our own production. Meets all USP and U.S. Pure Food requirements. Special corrosion-resistant equipment for handling and storage maintains purity to delivery. Prompt service from convenient shipping points.

"AA QUALITY" CHEMICAL PRODUCTS

Ammonium Fluosilicate
Bone Ash
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Bone Black Pigments ("Cosmic" Blacks)
Bone Oil
Carbonate of Ammonia
Dicalcium Phosphate
Disodium Phosphate (Crystalline)
Disodium Phosphate (U.S.P.)
Ferro Phosphorus
Gelatin (Photographic, Capsule & Edible)
Magnesium Fluosilicate
Monocalcium Phosphate ("Crystal" Phosphate)
Phosphoric Acid (Reagent Grade)
Phosphoric Acid (85% USP Syrupy)
Phosphoric Acid (Pure Food Grade)
Phosphoric Acid Paste
Phosphorus, Elemental
Phosphorus, Red
Phosphorus Pentasulphide
Phosphorus Sesquisulphide
Precipitated Bone Phosphate
Salt Cake
Sodium Silicofluoride
Sulphuric Acid
Trisodium Phosphate
Zinc Fluosilicate
Phos-Feed (Mineral Mixture)

The AMERICAN AGRICULTURAL CHEMICAL Co.

50 Church Street, New York 7, N. Y.

ACID PHOSPHORIC (cont'd)

†Amer Agricultural Chem Co, 50 Church St, N Y	Barclay 7-1400
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Amer Quinine Co, 15 William St, N Y	Hanover 2-7983
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-3585
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Galwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600

PHOSPHORIC ACID

(orthophosphoric acid)

Standard Forms: 50%, 75% and 85% H_3PO_4. **Grades:** U.S.P.; food, meets all U.S. Pure Food Law requirements; commercial, clear, water white liquid. Containers: Tank cars, barrels, carboys.

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MURRAY HILL 7-7267
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342 MADISON AVENUE NEW YORK 17, N. Y.

ACID PHOSPHORIC (cont'd)

Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-5113
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 85 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif	Kimball 2214
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Maxim Chem Co, Inc, 44 Cliff St, N Y	Worth 4-0070

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PHOSPHORIC ACID
85% N.F., 75%, and 50% food grade.
Carboys, stainless steel drums, and tank cars.
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141 W. Jackson Blvd., Chicago 4, Illinois

Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Oldbury Electro Chem Co, 19 Rector St, N Y	Digby 4-1668
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500

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85% Technical Grade
85% N.F. Grade
75% Food Grade
50% Food Grade
62½% Commercial Grade
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ACID PHOSPHORIC (cont'd)

Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y	Stillwell 4-0500
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
Bartlett Chems, Inc, New Orleans, La	Kruger, L, & Co, Inc, N Y
Fedigan, E J, Inc, Pittsburgh, Pa	Steidle Chem Co, Louisville, Ky
Globe Chem Co, Cincinnati, O	

ACID m-PHOSPHORIC

HPO₃. Visc. liq., colorless. Sp. gr. 2.25 (25°C.). Sol. alcohol, water. Uses—mfr. esters and salts; catalysts.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg 5-2151
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541

ACID PHOSPHORIC PASTE

A lime-phosphoric acid mixture containing not less than 50% P_2O_5. Uses—in the defecation of raw sugar solutions. Grades—wet paste; dry paste.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113

ACID PHOSPHOROUS

H_3PO_3. Moist, colorless cryst. acid. Melts somewhat below 73°C. Decomposes when heated to 200°C with liberation of phosphine. Forms mono and dibasic salts. Extremely sol. in water; very hygroscopic. Uses: reducing agent; mfr. phosphites.

†Dow Chem Co, Midland, Mich	Midland 500
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†Oldbury Electro Chem Co, 19 Rector St, N Y	Digby 4-1668
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113

ACID PHOSPHOTUNGSTIC

$WO_3.2H_3PO_4$. M.W. 428.2. Yel.-green crys. Slightly sol. cold water, alcohol, ether. Uses—weighting silk and leather; mordanting; tests for alkaloids, carbohydrates; mfr. insol. color lakes. Grades—C.P., pure.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959

ACID PHTHALIC (Acid Alizarinic, Acid Ortho-benzene-dicarboxylic)

$C_6H_4(COOH)_2$. M.W. 166.05. Colorless, crystalline needles. Sp. gr. 1.593. M.P. 191°C.d. Sol. alcohol; slightly sol. water, ether; easily sol. alcohol. Uses—mfr. intermediates, esters, pharmaceuticals, anthranilic acid, phenolphthalein, rhodamine, pyronine, fluorescein and eosin dyes, phthaleins, indigo, perfume esters; in medicine. Grades—tech.; pure.

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa	Atlantic 1-6240
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660

ACID PICRAMIC (Acid Picraminic, Dinitroaminophenol)

$C_6H_2(NO_2)_2(NH_2)OH$. Red cryst. M.P. 168°C. Sol alcohol, ether; slightly sol. water. Uses—mfr. azo and analine dyes, explosives. Grades—tech.

†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600

ACID PICRIC (Trinitrophenol, Acid Picronitric, Acid Carbazotic, Phenoltrinitrate)

$C_6H_2(NO_2)_3OH$. Yellow cryst. Sp. gr. 1.767. M.P. 122°C. Sol. water, alcohol, ether. Uses—mfr. picrates, substantive cotton, nigrosine and induline-dyes, military and commercial explosives; as color for dyeing and printing textures; tanning leathers; in medicine. Grades—tech.; U.S.P.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg 5-2151
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

ACID, PIMELIC

†Jorala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

ACID, POLYMETHACRYLIC

$[CH_2C(CH_3)COOH]_n$. Fine white powder. Sol. hot and cold water, methanol, ethanol. Uses: textile sizes and finishes, leather tanning agent, thickening agent.

†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121

ACID, PROPIOLIC (Acetylene Monocarboxylic Acid)

$CH{\equiv}C{\cdot}COOH$. M.W. 70.05. Colorless liquid; sharp odor. Uses: organic syntheses, pharmaceuticals, plastics.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Farchan Research Labs, 609 E 127 St, Cleveland, O — Glenville 1-8749

ACID PROPIONIC

C_2H_5COOH. M.W. 74.08. Water white liq. of penetrating odor. Completely miscible with water, alcohol, ether and chloroform. Sp. gr. 0.992 at 20°/4C. F.P. 22°C.; B.P. 141°C. Uses—mfg. propionates, artificial fruit flavors, anethol, perfume esters. Grades—tech.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

Cliffs Dow Chem Co, Marquette, Mich

ACID PYROGALLIC (Pyrogallol, Trihydroxybenzene)

$C_6H_3(OH)_3$. White cryst. Sp. gr. 1.463. M.P. 132.58°C. B.P. 293°C. Sol. water, alcohol, ether. Uses—mfr. intermediates, synth. pyrogallol; derived drugs, azo and hair dyes; as mordant; protective colloid in making metallic colloidal solutions; laboratory reagent; photographic developer; in process engraving; in medicine. Grades—C.P.; U.S.P.; cryst.; resublimed;

Acete Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870
†Zimsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

Manahan Chem Co, Inc, Bklyn, N Y

ACID PYROLIGNEOUS (Wood Vinegar, Pyroligneous Vinegar, Acetic Crude)

$H_3C_8H_5O_3$. Yellowish red liq., furfural odor. Sp. gr. 1.018-1.030. B.P. varying. Sol. water, alcohol. Uses—mfr. methanol, acetate of lime, iron acetate, vinegar, pyrolignite, dyestuffs, acetic acid, chemicals; in smoking meats. Grades—purified; U.S.P.; C.P.; tech.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500

Cliffs Dow Chem Co, Marquette, Mich — †Glidden Co, Jacksonville, Fla

ACID PYROPHOSPHORIC, ANHYDROUS

$H_4P_2O_7$. Colorless visc. liq. which crystallizes on long standing. Sp. gr. 2.04 (25°C.). Sol. water, alcohol. Uses—mfr. esters and salts; catalysis.

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

ACID, PYRUVIC

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

ACID RESORCIN DIACETIC

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550

ACID RESORCYCLIC-b (2,4-Dihydroxy Benzoic Acid)

$C_6H_3(OH)_2COOH$. M.W. 154.42. White, crystalline high-melting solid. Sl. Sol. water. Uses: in mfg. of specialty dyestuffs; intermediate in prep. of fine chemicals.

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

ACID, RHODIZONIC

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

ACID RICINOLEIC (Acid Ricinic)

$C_{18}H_{34}O_3$. Amber colored liq. The fatty acid in castor oil. Sp. gr. 0.945. M.P. 17°C. B.P. 250°C. (15 mm. pressure). Insol. water; partly sol. alcohol, ether, hydrocarbons. Uses—mfr. special soaps and esters.

†Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870
†Woburn Chem Corp, Harrison, N J — Kearny 2-3300

Poole, J R, Co, Boston, Mass — Zimmerman, C L, Co, Cincinnati, O

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ACID ROSOLIC (Acid Para-Rosolic, Corallin, Aurin)

$C_{20}H_{16}O_3$. Red, amorp. lumps with metallic lustre. M.P. 270°C. B.P. decomposes on further heating. Sol. alcohol, ether; slightly sol. glac. acetic acid, water. Uses—mfr. dyestuffs; as laboratory reagent; for staining photographs; dyeing wool and silk; coloring foodstuffs, confectionery, wall-paper, varnishes and paints. Grades—tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8832
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550

ACID S (Acid Aminonaphtholsulfonic 1:8:4)

$NH_2(OH)C_{10}H_5SO_3H$. 1:8:4. Gray cryst. Insol. alcohol, ether. Slightly sol. water. Uses: mfr. dyestuffs. Grades—tech.; dry powd.

†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121

ACID SACCHARIC (Saccharinic Acid)

$C_6H_{12}O_6$. Sol. (very) in water, alcohol, and ether. Use—substitute for tartaric acid.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550

ACID SALICYLIC (Acid Orthohydroxybenzoic)

$C_6H_4(OH)(COOH)$. M.W. 138.05. White, crystalline, needles or powd. Sp. gr. 1.443. M.P. 156-159°C. Sol. alcohol, ether, oil or turpentine, acetone. Uses—mfr. salicylates, esters, synth. drugs, salol, aspirin, salophen, artificial oil wintergreen, intermediates, azo dyes, catgut, parchment paper, perfume esters; as preservative foods, glues and hides; in medicine. Grades—U.S.P.; tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Dow Chem Co, Midland, Mich — Midland 500
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870

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$C_8H_{16}(COOH)_2$. Colorless or yellow leaflets. M.P. 133°C. B.P. 294.5°C. Sol. alcohol, ether. Slightly sol. water. Uses—mfr. salts, esters, celluloid plastics, candles, perfumes.

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270

ACID, SELENOUS

H_2SeO_3. M.W. 128.98. Colorless crystals. Very sol. hot water, alcohol. Uses: laboratory reagent.

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6373
†Chem Commerce, Newark, N J

ACID SILICIC

$SiO_2 + XH_2O$. White amorphous powder. Uses—as absorbent and in bleaching oils, fats and waxes.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

ACID, SILICOTUNGSTIC

$SiO_2.12WO_3.26H_2O$. M.W. 3312.47. White to yellow deliquescent crystals. Sol. water, alcohol. Uses: chemical reagent; mordant.

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

ACID, SORBIC

$CH_3CH:CH.CH:CH.COOH$. M.W. 112. White, crystalline solid. Sol. most organic solvents and in aqueous alkalies. Uses: intermediate; mfg. synthetic resins, textile specialties, essential oils, pharmaceuticals.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8080
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-8447

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$CH_3(CH_2)_{16}COOH$. M.W. 284.28. White, odorless amorphous. Natural. Sp gr. 0.847. M.P. 69.3°C. B.P. 383°C. Sol. alcohol, ether, carbon bisulfide, carbon tetrachloride, chloroform. Slightly sol. water. Uses—mfr. stearates, stearate driers, cosmetics, soaps, pyrotechnic compositions, candles, shoe and metal polishes; in medicine. Grades—saponified; distilled; single, double; triple pressed; U.S.P.

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Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
†Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
†Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Binney & Smith Co, 41 E 42 St, N Y	Murray Hill 2-1960
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
†Darling & Co, 4204 S Ashland Av, Chicago, Ill	Yards 7-3000
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Drew, E F, & Co Inc, 15 E 26 St N Y	Murray Hill 6-2800

ACID STEARIC (cont'd)

Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
Elmer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†General Mills, Inc, Chem Div, 400 2 Av S, Minneapolis, Minn	Atlantic 1144
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Gross, A, & Co, 295 Madison Av, N Y	Murray Hill 3-8250
Hardesty, W C, Co, Inc, 41 E 42 St, N Y	Murray Hill 2-1920

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Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412

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McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445

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Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
†Smith, Werner G, Co, 2491 W 110 St, Cleveland, O — Woodbine 1-4690
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Will & Baumer Candle Co, Inc, Park St, Syracuse, N Y — Syracuse 2-0411
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
†Woburn Chem Corp, Harrison, N J — Kearny 2-3300

Baker & Gaffney, Phila, Pa
†Celina Stearic Acid Co, Celina, O
Craven, Sidney F, N Y
Drummond, S F, Inc, N Y
Frey & Co, N Y
Grund, Henry L, Inc, Cleveland, O
Martin Hoyt & Milne, San Fran, Calif
Poole, J R, Co, Boston, Mass
Rimco Trading Corp, N Y
Schibley & Ossmann, Inc, Cleveland, O
†Shields, Thomas J, Co, N Y
Smead & Small, Inc, Cleveland, O
Stark, J W, Co, Detroit, Mich
Strohmeyer & Arpe Co, N Y
Verde, E J, & Co, N Y

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City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942

ACID SUCCINIC (Acid Ethylenedicarboxylic, Acid Ethylenesuccinic, Acid Amber, Acid Butanedioic)

$CO_2H(CH_2)_2CO_2H$. M.W. 118.05. Colorless cryst. Sp. gr. 1.562. M.P. 185°C. B.P. 235°C. Sol. water. Slightly sol. alcohol, ether. Uses—mfr. intermediates, synthetic drugs, dyes, perfume esters; as a disinfectant in medicine. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

ACID SULFAMIC

HO-SO_2-NH_2. M.W. 97.02. Crystalline, non-hydroscopic mineral acid. M.P. 205°C., with decomposition. Uses—Reagent in mfr. azo dyes and lake colors; leather tanning agent; ingredient in cleaning compounds; acidimetric standard in analytical work; intermediate for chemical syntheses.

Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

ACID SULFANILIC (Acid Para—Aminobenzenesulfonic, Acid Para—Anilinesulfonic)

$C_6H_4NH_2SO_3H.H_2O$. M.W. 191.14. Colorless cryst. M.P. chars at 280°C. Sol. hydrochloric acid. Slightly sol. water, alcohol, ether. Uses—mfr. intermediates, dyes, methyl orange. Grades—tech.; C.P.; pure.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va — 2-0113

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†Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

ACID SULFOSALICYLIC

$C_6H_3OH.COOH.SO_3H$. White, cryst. solid. M.P. 100-110°C. Sol. water, alcohol. Uses—reagent for albumin. Grade—analytical.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2350
Conway Prods Co, 510 6 Av, N Y — Oregon 5-2505
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Stanetal Corp, Linden, N J

ACID SULFURIC (Dihydrogen Sulfate, Oil of Vitriol, Battery Acid, Dipping Acid, Oleum, Hydrogen Sulfate)

H_2SO_4. Colorless to dark brown, oily liq. Sp. gr. 1.8342. M.P. 10.46°C. B.P. 210-238°C. Sol. water. Uses—mfr. inorganic and organic acids, nitric and hydrochloric acids, technical gases, hydrogen, hydrogen sulfide, carbon dioxide, sulfates of metals, hydrogen peroxide, alums, salt cake, synth. drugs, synth. perfumes, halogens, dyes, T.N.T., picric acid, smokeless powd., gun-cotton, nitroglycerine, sol. cotton, nitro-starch, nitro-sugar, stearin, fatty acids, liq. glue, yeast, mineral pigments, parchment paper, celluloid and pyroxylin plastics, candles, soap, glucose, syrups and refining sugar, rayon; as sulfonating agent in making intermediates and organic chemicals; fungicide; laboratory reagent; pickling agent for iron and steel; drying agent; mordant in dyeing and printing textiles; sour in bleaching cottons; resist in dyeing woolens; in storage batteries and ordinary cells; purifying fats and oils; solubilizing superphosphates; dehydrating foods; recovering ammonia as ammonium sulfate; neutralizing lime in glue making; tanning; refining precious metals; electroplating; cleaning bronze and brass; electrolytic refining of copper; metallurgy of cobalt, nickel, magnesium and other metals; washing tars; refining crude oils and petroleum products; photographic processes; process engraving; refining waxes; reclaiming rubber; recovering fatty acids; carbonizing wool; mercerizing cotton; in medicine. Grades—commercial, 66, 60, 50 deg. Oleum, 60%, 40%, 20%, 98% acid; Fuming Sulfuric, U.S.P., U.S.P. dilute (10%); C.P.

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Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
†Amer Agricultural Chem Co, 50 Church St, N Y	Barclay 7-1400
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Amer Quinine Co, 15 William St, N Y	Hanover 2-7963
†Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Blockson Chem Co, Patterson Rd, Joliet, Ill	Joliet 2-6601
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0995
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
†Consolidated Chem Industries, Inc, 640 Mellie Esperan Bldg, Houston, Texas	CA2371
†Cornwell Chem Corp, Cornwells Hgts, Pa	Cornwells 0302
†Davison Chem Corp, 101 N Charles St, Baltimore, Md	Saratoga 3900
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610

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†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del	Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
Fezsy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa	Atlantic 1-6240
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712

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Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
Nitrogen Prods Inc, 450 7 Av, N Y — Bryant 9-1045
Nitrogen Prods, Inc, Benzol Div, 926 Harrison Av, Kearny, N J — Bergen 4-5478
Onalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa — McKeesport 4-4278
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
†Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va — 2-0113
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

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†Amer Zinc Sales Co, Columbus, O
†Apache Powder Co, Benson, Ariz
Bartlett Chems, Inc, New Orleans, La
†Baugh Chem Co, Baltimore, Md
Cascade Chem Co, Seattle, Wash
Central Illinois Labs, Inc, Peoria, Ill
Chem Supply Co, Neenah, Wisc
Collier, H C, & Sons, Binghamton, N Y
†Con Chem Industries, Inc, San Fran, Calif
†Detroit Chem Wks, Detroit, Mich
Globe Chem Co, Cincinnati, O
H & W Chems, Inc, Rochester, NY
†Hegeler Zinc Co, Danville, Ill
Huber, L W, Co, N Y
Ideal Chem & Supply Co, Memphis, Tenn
Industrial Chem Co, Dayton, O
Jett, Joseph C, Norfolk, Va
Leidy Chems Corp, Baltimore, Md
Leitz Chem Co, Inc, Paterson, N J
McIver, Alex M, & Son, Charleston, S C
Minnesota Chem Co, St Paul, Minn
Monarch Chem Wks, Inc, Omaha, Neb
Ritter Chem Co, Amsterdam, N Y
Seidler Chem & Supply Co, Newark, N J
Vaughn Chem Co, Tulsa, Okla
Western Chem & Mfg Co, Los Angeles, Calif
White Star Chem Corp, Jacksonville, Fla

ACID SULFUROUS

H_2SO_3. Colorless, suffocating liq. or gas. Gas constants. Sp. gr. 1.43368. M.P.—76.1°C. B.P. 10°C. Sol. water. Uses—mfr. intermediates, sulfites, bisulfites, hydrosulfites, alums, salt cake, sulfuric acid, flour, food products, sulfite liquors; as preservative fruits, nuts, foods and wines; laboratory reagent; refrigerant in ice machines; fire extinguisher in mine fires; in bleaching fats, oils, silk, wool, straw hats, wicker work, sponges, feathers, furs, plumes; softening hides; tanning; smelting and refining ores; disinfecting ships; refining crude oils and paraffins; refining and bleaching sugar; in medicine. Grades—tech.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

ACID TANNIC (Tannin, Acid Digallic, Acid Gallotannic)

$C_{14}H_{10}O_9$. M.W. 322.08. Faintly yellowish amorphous powd. Decomposes at 200°C. M.P. 200°C. Sol. water, alcohol, acetone. Uses—mfr. tannates, gallic acid, pyrogallol, synth. drugs with metallic salts, organic bases, etc., writing and printing inks, metal coloring solutions, stove polishes, rubber substitutes; as tanning agent; alcohol denaturant; laboratory reagent; precipitant of gelatin in galvano plastic work; mordant in dyeing paper; deodorant for crude oil; general mordant in dyeing and printing textiles; clarifying agent wines and beers; in colloid solutions of noble metals; nickeling; copper coatings on brass; fur carroting; sizing paper; photographic processes; in medicine. Grades—U.S.P.; fluffy; C.P.; tech.

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Acete Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstaline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140

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†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

†Mead Corp, Chillicothe, O — Smith Crude Drug & Spice Corp, N Y

ACID TAR

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Concord Chem Co, Moorestown, N J — Moorestown 9-1100
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y — Bowling Green 9-7600

Crowley Tar Prods Co, Inc, N Y — †Productol Co, Santa Fe Springs, Calif
†Interlake Iron Corp, Cleveland, O — Tar Residuals, Inc, N Y
†Lewis Tar Prods Co, Lyons, Ill

ACID TARTARIC (Acid Racemic—Tartaric, Acid Dihydroxysuccinic, Acid Dihydroxy-butanedioic)

$C_2H_2(OH)_2(COOH)_2$. Colorless cryst. Sp. gr. 1.7598. M.P. 170°C. Sol. water, alcohol, ether. Uses—mfr. tartrates, cream of tartar, tartar emetic, intermediates, organic chemicals, dyes, baking powd., sweetmeats, effervescent beverages, confectionery, bakery products, fruit esters, artificial wines, Schnitzler's green; as silvering and tanning agent; brightener of silks; resist and discharge in printing and dyeing textiles; tendering agent for cotton; in metal coloring compositions; printing and developing photographs; in medicine. Grades—U.S.P.; cryst.; powd.; granular; C.P.; tech.

Amer-British Chem Supplies Inc, 17 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Fassy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610

ACID TARTARIC (cont'd)

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Newberg, Wm D, Co, Inc, 420 Lexington Av, N Y — Oregon 9-2550
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811

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†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
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★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
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$H_6P_4O_{13}$. Sp. gr. 2.060 at 20°C. Practically a water-white, viscous liq. When diluted with water reverts to orthophosphoric acid. Uses—it is a material of high P_2O_5 content with no water present except that of chemical combination.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

ACID THIOGLYCOLLIC (Mercaptoacetic Acid)

$HS.CH_2.COOH$. M.W. 92.09. Colorless liquid, strong unpleasant odor. Sp. gr. 1.325. M.P.—16°C. B.P. 104-106°C. at 15 mm. Uses—as sensitive reagent for iron; manufacture of thioglycollates, permanent wave solutions & depilatories.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030

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Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

†Halby Chem Co, Inc, Wilmington, Del

ACID, THIOPHENE-2-CARBOXYLIC

C_4H_3SCOOH. M.W. 128.13. Colorless crystals. Uses: organic synthesis.

†Arapahoe Chems Inc, 2800 Pearl St, Boulder, Colo	613
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818

ACID, THIOSALICYLIC

DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818

ACID THIOVANIC—see Acid Thioglycolic

ACID TOBIAS (2—Naphthylamine—1 Sulfonic Acid)

$C_{10}H_7NO_3S$. White needles. Decomposes at 230°C. Sol. hot water. Uses: mfr. azo dyes. Grades—tech.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
†Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O	Elmhurst 1300
L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y	Lexington 2-5806

ACID TOLUENESULFONIC

$C_6H_4(SO_3H)(CH_3)$. M.W. 172.19. Sol. alcohol, ether. Uses—dyes, organic synthesis. Grades—technical.

Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000

ACID-p-TOLUENESULFONIC (4-methylbenzenesulfonic Acid)

$CH_3C_6H_4SO_3H$. M.W. 172.12. Monocl. leaf or pr. M.P. 106-7. B.P. 140°C @ 20 mm. Hg. Sol., alcohol, ether. Sltl. sol. water. Uses—intermediate, penetrating agent for certain uses. Grades 74% anhydrous.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y	Lexington 2-5806

ACID, TRICHLOROACETIC

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Dow Chem Co, Midland, Mich	Midland 500
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

ACID, TRICHLORPHENOXYACETIC

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Dow Chem Co, Midland, Mich	Midland 500
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000

ACID, TRIFLUOROACETIC

CF_3COOH. M.W. 114.03. Colorless fuming liquid, sharp odor. B.P. 72.4° C. Uses: organic syntheses.

†Columbia Organic Chems Co, Inc, 600 Capital Plaza, Columbia, S C	2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C	7125

ACID TUNGSTIC (Acid Wolframic, Acid Orthotungstic)

H_2WO_4. M.W. 250.02. Yellow powd. Sp. gr. 5.5. M.P. 100°C. Sol. alkalies, hydrofluoric acid. Insol. water. Uses—mfr. tungstates, tungsten wire, plastics; as metal mordant; resist in dyeing and printing.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Fansteel Metallurgical Corp, N Chicago, Ill	†North Metal & Chem Co, York, Pa
Metallurg, Inc, N Y	†Shattuck, S W, Chem Co, Denver, Colo

ACID, UNDECYLENIC

$CH_2{:}CH(CH_2)_8COOH$. M.W. 174. Colorless liquid. Uses: medical preparations.

Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
†Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200
Zimmerman, C L, Co, Cincinnati, O	

ACID, UNDECYLIC

†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†United Sterling Corp, 37 E 28 St, N Y	Murray Hill 9-2686

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$C_5H_4O_3N_4$. M.W. 168.06. Sp. gr. 1.893 at 20°C. Crystal, white powd. Slightly sol. water, insol. alcohol, ether; sol. strong alkalies. Uses: mfr. pharmaceuticals, as a lab. chemical.

Amer Quinine Co, 15 William St, N Y	Hanover 2-7983
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

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C_4H_9COOH. Colorless liq. B.P. 186°C. Sp. gr. 0.940. Slightly sol. water; misc. alcohol, ether. Uses—syntheses for flavors, perfumes.

†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Le Bus, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
†Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

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†Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Corn Prods Refg Co, 17 Battery Pl, N Y	Whitehall 4-0880
†Dow Chem Co, Midland, Mich	Midland 500
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Hexagon Labs, Inc, 3536 Pearlree Av, Bronx, N Y	Fairbanks 4-7550
†Jorala Prods Co, 894 Whittier St, Bronx, N Y	Dayton 3-1137
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Lack Chem Co, 19 Park Pl, N Y	Cortlandt 7-5942
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200

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†Staley, A E, Mfg Co, Decatur, Ill	4141
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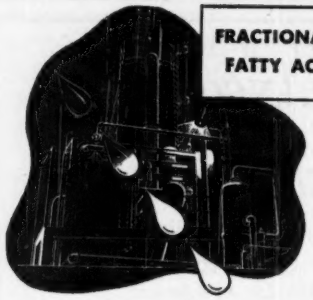
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Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Dawe's Vitamins, Inc, 4800 S Richmond St, Chicago, Ill	Virginia 3710
Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	La 7-4650
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
†General Mills, Inc, Chem Div, 400 2 Av S, Minneapolis, Minn	Atlantic 1144
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hardesty, W C, Co, Inc, 41 E 42 St, N Y	Murray Hill 2-1920
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525

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Malmstrom, N I, & Co, 147 Lombardy St, Bklyn, N Y — Evergreen 8-7626
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
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Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
†Woburn Chem Corp, Harrison, N J — Kearny 2-3300
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†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
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†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

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†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
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†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
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Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y	Walker 5-5530
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Meer Corp, 318 W 46 St, N Y	Judson 6-0900
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Parker, Herbert H, 2 Bway, N Y	Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

†Amer Agar & Chem Co, San Diego, Calif
Enco Chem Corp, N Y
Fidelity Trading Co, Inc, San Fran, Calif

†Hathaway Allied Prods, Los Angeles, Calif
†Siber, Hegner & Co, Inc, N Y
Weinstein, Joseph, Phila, Pa

ALANINE

†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Dow Chem Co, Midland, Mich	Midland 500
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Jorala Prods Co, 894 Whittier St, Bronx, N Y	Dayton 3-1137
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

beta-ALANINE

$NH_2CH_2CH_2COOH$. M.W. 89.1. White, crystalline solid. Very sol. water; slightly sol. methyl alcohol; insol. ethyl ether, benzene, naphtha, ethyl acetate. Uses: synthesis of pantothenic acid.

Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

†Goodrich, B F, Chem Co, Cleveland, O

ALBUMEN, BLOOD

Natural product prepared from serum drained from blood. Brown, amorp. lumps. Sol. alcohol, water. Uses—mfr. albuminates, dye preparations, sweetmeats, baked products, foodstuffs, adhesives, special varnishes, artificial ivory; fixing gold on leather; finishing leather; paper size; in lustrous coating compositions for photographic papers; mordant in dyeing and printing; wine clarifying agent; in medicine. Grades—tech., light and dark.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y	Hanover 2-3750

ALBUMEN, BLOOD (cont'd)

†Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill	Boulevard 6400
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
Philips Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294

ALBUMEN, EGG (Ovalbumin)

Natural product prepared by drying egg whites. Yellowish, amorp. lumps or powd. Sol. alcohol. Uses—mfr. leather, varnishes, adhesives, ivory substitutes, foodstuffs; as wine clarifying agent; in finishing leather; in photography; fixing certain dyes. Grades—tech.; edible.

Amer-British Chem Supplies Inc, 180 Madisen Av, N Y	Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y	Walker 5-5530
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y	Hanover 2-3750
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Le 7-4650
†Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill	Boulevard 6400
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Hunt, Philip A, Co, Palisades Park, N J	Leonia 4-4000
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Newberg, Wm D, Co, Inc, 420 Lexington Av, N Y	Oregon 9-2550
Parker, Herbert H, 2 Bway, N Y	Whitehall 4-7996
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Stein, Hall & Co, Inc, 285 Madison Av, N Y	Murray Hill 9-0800

Berkshire Color & Chem Corp, Springfield, Mass
†Emulsol Corp, Chicago, Ill
Fidelity Trading Co, Inc, San Fran, Calif

Houghton, Philip A, Inc, Boston, Mass
†Lowe, Joseph, Corp, N Y
Siber, Hegner & Co, Inc, N Y
Standard Chem Co, Phila, Pa

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Liquid or dried egg albumens—in every form for every industrial use. Write for samples and quotations.

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ALBUMEN, MILK (Wheyalbumin)

An albumen prepared from milk by coagulating the casein. Uses—mfr. adhesives, varnishes, ivory substitutes.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†Sheffield Farms Co, Inc, Chemurgic Div, P O Box 630, Norwich, N Y	Norwich 915

ALBUMEN TANNATE

Yellowish-white, odorless powder. Uses—medicine.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4961
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500

ALBUMEN VEGETABLE

A protein found in vegetable tissues and fluids. Sol. in cold water, dilute acids, alkalies. Coagulated by hot water. Uses—baking and food industries, photography, clarifying syrupy liquids, as mordant in textile printing, leather industry and wine industry.

Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481

ALCOHOL ALLYL (Propenol, Propenyl Alcohol)

CH_2CHCH_2OH. M.W. 58.05. Colorless liq. of pungent odor. Sp. gr. 0.855. M.P. —129°C. B.P. 97°C. Sol. alcohol, water, ether. Uses—mfr. intermediates, organic chemicals, military gas, pharmaceutical derivatives. Grades—tech. in strengths up to 30%.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447
Empire Chem Corp, N Y

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ALCOHOL AMYL—ISO (Isobutyl Carbinol)

$(CH_3)_2CHCH_2CH_2OH$. Mixture approx. 85% iso-amylalcohol and 15% active amyl alcohol. Water white liq. Sp. gr. at 20°/20°C. 0.811-0.815. F.P. 111°F. B.P. 131°C. Fire hazard. Combustible, but not inflammable; flash point over 80°F. Wt. per gal. at 20°C. 6.76 lbs. Uses—as an intermediate in the mfr. of fine chemicals and pharmaceuticals.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
†Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120

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ALCOHOL AMYL—ISO (cont'd)

†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
†Publicker Industries, Inc, Phila, Pa

ALCOHOL AMYL (Mixed Isomers)

Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

ALCOHOL AMYL NORMAL (Fusel Oil, Grain Oil, Pentanol Normal Butyl Carbinol, Amylhydroxide, Potato Spirits)

$C_5H_{11}OH$. Colorless liq. Sp. gr. 0.82 (20°C.). B.P. 137°C. Sol. alcohol, ether. Slightly sol. water. Weight per gal. 6.83 lbs. Uses—solvent for oils, camphor, resins, sulfur, phosphorus, iodine, alkaloids, spirit varnishes, artificial fruit essences, dyestuffs, perfume preparations, dyeing textiles, vulcanization of rubber, purification of minerals. Grades—C.P.; tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Elbert & Co, Inc, 2 Bway, N Y — Digby 4-2670
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Rear, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
†Publicker Industries, Inc, Phila, Pa

ALCOHOL AMYL SECONDARY (Methyl-propyl Carbinol, Dipentanol)

$CH_3CHOH(C_3H_7)$. M.W. 88.09. Water-white liq. Sp. gr. at 20°/20°C. 0.810-0.816. Weight per gal. at 20°C. 6.76 lb. Fire hazard. Combustible, but not inflammable. Flash point over 80°F. Uses—mfr. secondary amyl acetate; as a part of lacquers and lacquer thinners; synthesis of ketones; preparation of other organic solvents.

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ALCOHOL AMYL SECONDARY (cont'd)

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Sharples Chems Inc, Phila, Pa	Kingsley 5-2802
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400

ALCOHOL AMYL TERTIARY (Amylene Hydrate, Dimethylethylcarbinol)

$(CH_3)_2C(OH)CH_3$. M.W. 88.09. Colorless liq., camphor odor. Sp. gr. 20°C. 0.810. M.P. —12°C. B.P. 101.8°C. Sol. alcohol, ether. Slightly sol. water. Weight per gal., 6.75 lbs. distillation. Uses—mfr. intermediates, fruit flavors; plasticizer in paints, varnishes, and cellulose ester plastics. Grades—C.P.; tech.

†Sharples Chems Inc, Phila, Pa	Kingsley 5-2802
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400

ALCOHOL BENZYL (Phenmethylol, Phenyl Carbinol, Alpha-Hydroxytoluene)

$C_6H_5CH_2OH$. Colorless liq., faint, aromatic odor. Sp. gr. 1.043 (20°C.). B.P. 204.7°C. Sol. water, alcohol, methanol, ether. Uses—mfr. intermediates, esters, organic chemicals, airplane dopes, varnishes, artificial perfume preparations; in medicine. Grades—tech.; pure.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
†Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y	6655
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

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ALCOHOL BENZYL (cont'd)

†Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
Panray Corp, N Y	†Trubek Labs, Inc, E Rutherford, N J

ALCOHOL BUTYL NORMAL (Alcohol Butyric, Butanol, Propylcarbinol Butylhydroxide, Hydroxybutane)

$CH_3(CH_2)_2CH_2OH$. M.W. 74.08. Colorless liq., vinous odor. Sp. gr. 0.810 (20°C.). B.P. 117.7°C. M.P. —89°C. F.P. 35°C. Sol. water, alcohol, ether. Uses—mfr. esters, butyric acid, butyl derivatives, butenes high temperature extractions and alcoholic saponifications, dyestuffs, color bases, fruit essences, artificial leather, leather coatings, paints, varnishes, japans, dopes, lacquers, perfume preparations, artificial musk, pharmaceuticals; solvent fats, oils, gum, films, moving picture films, celluloid, plastics, wax, resins, vehicle in making bronze powd.; in medicine. Grades—crude; refined.

Accto Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6500
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Shawinigan Prods Corp, 350 5 Av, N Y	Chickering 4-1243
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J	Rutherford 2-7420
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
★†Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Farinella, Frank C, N Y	†Publicker Industries, Inc, Phila, Pa
Houghton, Philip A, Inc, Boston, Mass	Senn, George, Inc, Phila, Pa
†Pfau's, George, Sons Co, Jeffersonville, Ind	†Western Condensing Co, Appleton, Wis
	Wilkoff, David L, Co, N Y

ALCOHOL BUTYL SECONDARY (Methylethylcarbinol Dibutanol)

$CH_3CH_2CHOHCH_3$. M.W. 74.08. Colorless liq., pleasant odor. Sp. gr. 0.803. B.P. 99.5°C. Sol. water, alcohol, ether. Uses—mfr. intermediate and organic chemicals, fruit essences, perfumes, dyestuffs; solvent in cellulose ester varnishes, lacquers and plastics. Grades—C.P.; tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600

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ALCOHOL BUTYL SECONDARY (cont'd)

Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J	Rutherford 2-7420
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760

Smead & Small, Inc, Cleveland, O

ALCOHOL BUTYL TERTIARY (Alcohol Pseudobutyl Trimethyl Carbinol, Dimethyl-dipropanol)

$(CH_3)_3COHCH_3$. White solid crystalline, camphor odor. Sp. gr. 0.786. M.P. 25.5°C. Sol. water, alcohol, ether. Uses—mfr. intermediates, fruit essences, cellulose esters, plastics, lacquers. Grades—C.P.; tech.

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Elbert & Co, Inc, 2 Bway, N Y	Digby 4-2670
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
LaPlace, L J & M, 85 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660

ALCOHOL CAPRYL (Octyl Alcohol, Alcohol Caprylic)—see also Alcohol, Octyl

$C_8H_{18}O$. M.W. 130.14. Sp. gr. 0.825. B.P., C.P. grade, 178-180°C. Pure grade, 194°C. Weight per gal., 6.8 lbs. Water white mobile liquid with mild sweet odor. Non-corrosive. Sol. water, alcohol, ether, organic solvents. Uses—as a powerful anti-foaming agent; mfr. high boiling esters, octyl acetate, octyl phthalate, etc.; as a solvent. Pure grade used as a perfume. Grades—pure; C.P.

Aceto Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†Hardesty Chem Co, Inc, 41 E 42 St, N Y	Murray Hill 2-6270
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

ALCOHOL CAPRYLIC—see Alcohol, Capryl

ALCOHOL CETYL (Ethal, Alcohol Cetylic, Hexadecanol, Cetal, Alcohol Hexadecyl, Pentadecyl Carbinol)

$C_{16}H_{33}OH$. M.W. 242.35. A colorless, tasteless waxy powd. M.P. 49.5°C. B.P. 344°C. Sp. gr. 0.808. Insol. water, sol. alcohol, ether. Uses—mfr. skin creams, etc. Base for mfr. sulfonated fatty alcohols.

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ALCOHOL CETYL (cont'd)

†Aceto Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Humphrey-Wilkinson, Inc, De Vine St, North Haven, Conn	New Haven 2-7771
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
Michel, M, & Co, Inc, 90 Broad St, N Y	Digby 4-3878
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O	Woodbine 1-4690
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048

Revson, R F, Co, N Y

ALCOHOL CINNAMIC

$C_9H_{10}O$. M.W. 134.13. Slightly yellowish, viscous liq. with lilac or hyacinth odor. Uses: for blending with other perfumes and as a fixative.

†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4330
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

ALCOHOL CROTYL (2-Buten-1-ol, Propenylcarbinol, gamma-Methyl-Allyl Alcohol)

$CH_2{:}CHCH_2CH_2OH$. M.W. 72.06. Col. liq. B.P. 113° C. Sol. water, alcohol. In lab quantities.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

ALCOHOL CYCLOPENTYL

†Arapahoe Chems Inc, 2800 Pearl St, Boulder, Colo	613
†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C	2-7419

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ALCOHOL DECYL

$CH_3(CH_2)_9CH_2OH$. Colorless, water-white liq.; sweet, fat-like odor. B.P., 231°C.; M.P., -6°C.; sp. gr., 0.829; insol. water at 25°C. Uses: antifoams, perfume intermediate; mfr. of detergents and esters.

Aceto Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Humphrey-Wilkinson, Inc, De Vine St, North Haven, Conn	New Haven 2-7771
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J	Rutherford 2-7420
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

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Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Le 7-4650
Galwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†Nealco-Monsanto Co, Boston, Mass	Everett 7-5010
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Saldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
†United Distillers of Amer Inc, 350 5 Av, N Y	Lackawanna 4-3570
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
Wharry, G A, & Co, Inc, 93 Broad St, N Y	Whitehall 3-5760
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

Cohen, Harry, Atlanta, Ga	†Publicker Industries, Inc, Phila, Pa
Collier, H C, & Sons, Binghamton, N Y	Riverside Chem Co, Inc, N Tonawanda, N Y
Drouillard, J C, Co, Cleveland, O	Schibley & Ossmann, Inc, Cleveland, O
H & W Chems, Inc, Rochester, NY	Seidler Chem & Supply Co, Newark, N J
Houghton, Philip A, Inc, Boston, Mass	Smead & Small, Inc, Cleveland, O
Krekel Goetz Sales & Supply Co, Grand Rapids, Mich	Tench, H G, Co, Inc, Pittsburgh, Pa
McClellan, G C, & Co, Boston, Mass	

ALCOHOL DIACETONE (4—Hydroxy—2 Keto—4 Methylpentane, Diacetone, Acetylacetone)

$CH_3COCH_2C(CH_3)_2OH$. Colorless to light straw liq. Sp. gr. 0.915-0.943. Sol. water. B.P. 130-175°C. M.P. —54 to —57°C. F.P. 59-67°C. Uses—solvent cellulose esters, acetate lacquers, plastics, dyes, resins, waxes. Grades—acetone-free; not more than 16% acetone.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8300
Chemstar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420
Wharry, G A, & Co, Inc, 93 Broad St, N Y	Whitehall 3-5760

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(A Ketone Alcohol)

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METHANOL . . . BUTANOL
and their derivatives

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ALCOHOL ETHYL (Ethanol, Grain Alcohol, Cologne Spirits, Ethyl Hydrate, Spirit of Wine)

C_2H_5OH. M.W. 46.05. Colorless liq., ethereal, vinous odor. Sp. gr. 0.789 (20°C.). M.P. —117.3°C. B.P. 78.4°C. Sol. water, methanol, ether. Uses—mfr. intermediates, esters, organic derivatives, synthetic drugs, chloroform, iodoform, ether, acetic acid, alcoholates, phenacetin, antipyrine, dyes, smokeless powd., food preparations, sheep dips, plant washes, artificial leather, margarine, motor fuel, incandescent mantles, solid alcohol, anti-freeze solutions, carbon removers, cleansers, polishing compositions, dipping fluids, artificial flowers, essences, hats, cartridges, cements, composition billiard and pool balls, spirit varnishes, enamels, paint removers, perfumes, cosmetics, toilet preparations, lubricating compositions, photographic papers and plates, Celluloid, plastics, rubber cements, disinfecting soaps, liquid and transparent soaps; as fulminate; cordite; solvent in extracting essential oils; preservative and solvent in condiments; illuminant; laboratory reagent; preservative for animal and plant specimens; general solvent; solvent and extracting medium for resins and waxes; solvent in making artificial rubber and rayon; in cleaning; polishing; etching; soldering; coloring and lacquering metals; refining petroleum; dyeing and printing; silvering mirrors; in medicine. Grades—U.S.P.; Cologne spirits; absolute. 188, 190 proof; 96%.

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Barclay Chem Co, Inc, 73 Varick St, N Y	Worth 4-5120
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600

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ALCOHOL ETHYL (cont'd)

Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4733
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†Nealco-Monsanto Co, Boston, Mass	Everett 7-5010
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J	Rutherford 2-7420
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473

ETHYL ALCOHOL
Grades: (1) Tax Free, 190 proof pure Ethyl Alcohol (95% by volume); (2) Tax paid, 190 proof pure Ethyl Alcohol (95% by volume); (3) Specially Denatured Alcohol; (4) Completely Denatured Alcohol, 188 proof.
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ALCOHOL ETHYL (cont'd)

†United Distillers of Amer Inc, 350 5 Av, N Y	Lackawanna 4-3570
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
Baker & Gaffney, Phila, Pa	Phillips & Martin Co, Chicago, Ill
Hinz, J H, Co, Cleveland, O	†Publicker Industries, Inc, Phila, Pa
Houghton, Philip A, Inc, Boston, Mass	†Puget Sound Pulp & Timber Co, Bellingham, Wash
Miller, Carl F, & Co, Inc, Seattle, Wash	Sonn, George, Inc, Phila, Pa
Moser, George, & Son, Inc, Detroit, Mich	

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SHELL CHEMICAL CORPORATION
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ALCOHOL 2-ETHYL BUTYL

$C_2H_5CH(C_2H_5)CH_2OH$. Colorless liq. B.P. 148.9°C. Sp. gr. .8328 at 20/20°C. Insol. water, sol. organic solvents. Uses—lacquer solvent, penetrant, coupling agent, and in printing lacquers.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
★†Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957

ALCOHOL, 2-ETHYL HEXYL

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Humphrey-Wilkinson, Inc, De Vine St, North Haven, Conn	New Haven 2-7771
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
★†Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957

ALCOHOL FURFURYL (Furyl Carbinol)

$C_4H_3OCH_2OH$. Water white, darkening upon exposure. Sp. gr. 1.135 (at 20°C.). B.P. 165-172°C. Uses—organic solvent for nitrocellulose. Forms a black insoluble resin when treated with mineral acids, preparation of non-skinning varnishes, preparation of insoluble, infusible, waterproof protective coatings. Caution—reacts with explosive violence with concentrated mineral acids. Grade—tech.

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

†Quaker Oats Co, Chicago, Ill

ALCOHOL, HEPTADECYL

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000

ALCOHOL, HEPTYL

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

ALCOHOL, n-HEPTYL

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Humphrey-Wilkinson, Inc, De Vine St, North Haven, Conn	New Haven 2-7771

ALCOHOL n-HEXYL (Hexanol)

$CH_3(CH_2)_4CH_2OH$. M.W. 102.11. Colorless liq., insol. water. B.P. 158.8°C. and has a sp. gr. of 0.8217 at 20°/20°C. Uses—synthesis, oral cleaning; in shampoos, etc.; as dyeing and printing assists.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
†Humphrey-Wilkinson, Inc, De Vine St, North Haven, Conn	New Haven 2-7771
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

ALCOHOL HIGHER FATTY

Produced from natural fats or oils by reducing the fatty acids to the corresponding fatty alcohols. Alcohols most commonly used are cetyl, oleic, stearic, lanolic, laurel, oleyl and cholesterol. In the manufacture of the so-called "soapless soaps" these alcohols are then reacted with sulfuric acid, and the alcohol sulfate is neutralized with caustic soda to form the fat alcohol sulfate. See also sodium laurel sulfate. Uses—

ALCOHOL HIGHER FATTY (cont'd)

for the soap, in the place of ordinary soap in textile, laundry and general cleaning; in shampoos, etc.; as dyeing and printing assists.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
†Farchan Research Labs, 609 E 127 St, Cleveland, O — Glenville 1-8749

ALCOHOL, HYDROABIETYL

†Hercules Powder Co, 978 Market St, Wilmington, Del

ALCOHOL ISOBUTYL (Isopropylcarbinol)

$(CH_3)_2CH.CH_2OH$. M.W. 116.09. Colorless, thick liq. Sp. gr. 0.806 (16°C.). B.P. 99.5°C. Sol. water, alcohol, ether. Uses—mfr. intermediates, organic chemicals, synth. dyes, fruit essences, perfumes; solvent paint removers. Grades—tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Chem Sales Corp, Buffalo, N Y — Wilkoff, David L, Co, N Y

ALCOHOL ISO-OCTYL

†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

ALCOHOL ISOPROPYL (Alcohol Pseudopropyl, Dimethylcarbinol, Isopropanol)

$CH_3CHOHCH_3$. M.W. 60.06. Colorless liq. Sp. gr. 0.789. B.P. 82.3°C. Sol. alcohol, ether, water. Uses—mfr. acetone; solvent lacquers, plastics, varnish; organic synthesis; in medicine. Grades—crude; refined; anhydrous; 91%.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Ackerman, J C, Co, Pittsburgh, Pa
Cohen, Harry, Atlanta, Ga
†Farinella, Frank C, N Y
Horn, Jefferys & Co, Burbank, Calif
Leidy Chems Corp, Baltimore, Md
McClellan, G C, & Co, Boston, Mass
Mifflin Chem Co, Phila, Pa
Smead & Small, Inc, Cleveland, O
Stark, J W, Co, Detroit, Mich
Warren-Douglas Chem Co, Inc, Omaha, Neb
Wilkoff, David L, Co, N Y

ALCOHOL LANOLIN

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Malmstrom, N I, & Co, 147 Lombardy St, Bklyn, N Y — Evergreen 8-7626
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267

ALCOHOLS

Allyl Alcohol
Diacetone Alcohol
Ethyl Alcohol
Isopropyl Alcohol
Methyl Isobutyl Carbinol
Secondary Butyl Alcohol
Tertiary Butyl Alcohol

See also "Solvents"

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ISO-OCTYL ALCOHOL

Clear, colorless liquid, miscible with most oxygenated and hydrocarbon type solvents. Principally used for production of esters which function as plasticizers for vinyl resins and nitrile type rubbers, as a lacquer and resin solvent, antifoam agent, and in the manufacture of detergents and wetting agents.

SECONDARY BUTYL ALCOHOL

Clear, colorless liquid among medium boiling group of solvents. Solvent for lacquers and resins, component of hydraulic fluids, coupling agent. Employed in the preparation of esters, secondary butyl xanthate, methyl ethyl ketone.

PETROHOL (Isopropyl Alcohol)

Marketed in 91%, 95% and 99% concentrations. Clear, colorless liquid, completely miscible in water. Used in antiseptics, astringents, emulsions, lotions, shampoos, tonics, cosmetics, bactericides, sterilizers, rubbing compounds, reagents, crystallizations, drugs, food products, cleaning agents, phenolic resin thinner, nitrocellulose dehydration, nitrocellulose coatings. Raw material for acetone, esters, isopropyl ether.

ENJAY COMPANY, INC.
15 West 51st St.
New York 19, N. Y.
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ALCOHOL LANOLIN (cont'd)

†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184
Rosenthal-Barcow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Hueston, C L, Detroit, Mich — Revson, B F, Co, N Y

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*Reg. U.S. Pat. Off.

ALCOHOL METHALLYL

M.W. 72; B.P. 114.5°C. Sp. gr. at 20/4 0.852. solvent, synthesis.

Ecclestone Chem Co, Inc, 2669-79 Gusin St, Detroit, Mich — Lo 7-4650

ALCOHOL, METHYL AMYL

C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420

ALCOHOL, NONYL

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ALCOHOL, n-NONYL

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500

ALCOHOL OCTYL (2-Ethyl Hexanol, Methyl Hexyl Carbinol)

$C_4H_9CH(C_2H_5)CH_2OH$. Colorless liq. B.P. 184.6°C. Sp. gr. at 20°/20°C. is .8344. Insol. water, sol. organic solvents. Uses—lacquer solvent, synthesis.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ALCOHOL OCTYL, Normal, Primary (Octanol-1)

$CH_3(CH_2)_6CH_2OH$. Colorless Liq. Penetrating characteristic aromatic odor. Sp. gr. 0.827 at 20°C. B.P. 194-195°C. refractive index 1.430 at 20°C. Miscible with alcohol, chloroform, ether. Immiscible with water. Uses—perfumery, organic synthesis.

Acato Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Humphrey-Wilkinson, Inc, De Vine St, North Haven, Conn — New Haven 2-7771
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

ALCOHOL OCTYL, Normal, Secondary (Methyl Hexyl Carbinol, 2-Octanol, Capril Alcohol)

$CH_3(CH_2)_5CHOHCH_3$. Colorless oily liquid. Aromatic odor. Sp. gr. 0.825 at 15°C. B.P. 178-179°C. Refractive Index 1.437 at 20°C. Miscible with alcohol and ether. Immiscible with water. Uses—perfumery, organic synthesis.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850

ALCOHOL OCTYL, Normal, Secondary (cont'd)

Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

ALCOHOL OLEYL

Acato Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

ALCOHOL, PHENYL ETHYL (Benzyl Carbinol, 2-Phenylethanol, Phenethyl Alcohol)

$C_6H_5CH_2CH_2OH$. M.W. 122. Colorless liquid; light rose-type odor. Slightly sol. in water, aqueous alcohol. Uses: perfumes.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dow Chem Co, Midland, Mich — Midland 500
†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 26 Desbrosses St, N Y — Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ALCOHOL PHENYL PROPYL

(Ethyl-phenylcarbinol). C_6H_5 CH (OH). C_9H_{12}; mol. wt. 136.09; colorless liquid; characteristic odor. Sp. Gr., 0.9962. Boils 219°. Insoluble in water; sol. alcohol and any other organic solvents.

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
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Polyvinyl Alcohol

"ELVACET"

Polyvinyl Acetate

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ALCOHOL POLYVINYL

$(CH_2CHOH)_x$. Colorless, odorless, tasteless, thermoplastic, synthetic resin. Transparent when molded or cast in film form. Density 1.27-1.30 (20°C.). Sol. water. Insol. ordinary org. solvents, oils, fats and greases. Uses—for sizing and greaseproofing paper; in adhesives; as an emulsifier; in gas and oil-impervious films and coatings. in oil-resistant extruded and molded articles. Grades—Type "A"; containing unsaponified acetyl groups. Type "B", fully saponified; both types available in low, medium, and high viscosities.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1245

ALCOHOL PROPARGYL (2-Propyn-1-ol)

$HC{\equiv}C{\cdot}CH_2OH$. M.W. 56.06. Colorless liquid; characteristic odor. Uses: organic syntheses, pharmaceuticals, plastics.

†Farchan Research Labs, 609 E 127 St, Cleveland, O — Glenville 1-5749



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n-PROPANOL
ISOBUTANOL

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*Reg. U. S. Pat. Off.

ALCOHOL PROPYL (Propanol, Ethyl Carbinol)

$CH_3CH_2CH_2OH$. M.W. 60.1. Boil. Range (commercial) 96-98°C. Spec. Heat 0.650 (between 16-100°C.). Heat of Vapr. 162.6 cal./gram (97.3°C.). Heat of Comb. 8,000 cal./gram. Refract. Index Nd 1.386 (20°C.). Dielectric Constant 22.2 (20°C.). Coeff. Viscosity c.g.s. units at 20°C.—0.02255; Coeff. Viscosity c.g.s. units at 90°C.—0.00526. Colorless liq., vinous odor. Sp. gr. 0.806 (20°C.). B.P. 97.3°C. Sol. water, alcohol, ether. Uses—mfr. intermediates, organic chemicals, lacquers, cosmetics, dental lotions and washes; as fulminate; in polishing compositions; solvent in making dopes; resins, wax; in medicine. Grades—tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

Chem Sales Corp, Buffalo, N Y — Moser, George, & Son, Inc, Detroit, Mich

ALCOHOL, STEARYL (Octadecanol, n-Octadecyl Alcohol)

$C_{18}H_{38}OH$. M.W. 270.49. Colorless, tasteless, waxy. Insol. water; sol. alcohol, ether. Uses: mfg. of skin creams, detergents, plasticizers, lubricants.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Humphrey-Wilkinson, Inc, De Vine St, North Haven, Conn — New Haven 2-7771
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
†Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184

ALCOHOL, TETRADECYL

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Humphrey-Wilkinson, Inc, De Vine St, North Haven, Conn — New Haven 2-7771

ALCOHOL TETRAHYDROFURFURYL

C_5H_9O-CH_2OH. M.W. 102.08. Water white liq. with mild, pleasant odor. B.P. 178°C. Sp. gr. 1.05. Misc. with water and most of the common organic acids. Uses—solvent for textile dyes, nitrocellulose, vinyl resins, natural and synthetic gums; wetting and dispersing agent.

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Quaker Oats Co, Chicago, Ill

ALCOHOL, UNDECYL

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ALCOHOL UNDECYLENYL

$C_{11}H_{21}OH$. M.W. 170.29. Colorless liquid. Uses: organic syntheses, perfumery, pharmaceuticals.

Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ALCOHOLS, WOOL GREASE

Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756

ALDEHYDE AMMONIA

$CH_3CH(OH)NH_2$. White crystals. M.P. 70-80°C. B.P. 100°C. (decomp.). Very sol. water, alcohol; slightly sol. ether. Uses—mfr. organic chemicals; rubber accelerator. Grades—tech.

†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307

ALDEHYDES, FATTY

C_8-C_{12} aliphatic aldehydes. Uses: flowery compounds.

★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

†Chaleyer, Ph, Inc, N Y

ALDOL (Acetaldol, Hydroxybutyraldehyde, Betahydroxybutyraldehyde, Oxybutyricaldehyde, Oxybutanol)

$CH_3CH(OH)CH_2CHO$. M.W. 88.06. Colorless liq. Sp. gr. 1.1098. Flash point 181.4°C. F.P. below 0°C. B.P. 58°C. Miscible water, ether, alcohol. Uses—mfr. intermediates, organic chemicals, dyestuffs, perfumes; in engraving; ore flotation; in medicine; in mfr. of rubber antioxidants. Grades—tech.
White to dark brown solid with marked hydrophilic colloidal properties.

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

ALGIN—see also Sodium and Ammonium Alginates

White to dark brown solid with marked hydrophilic colloidal properties.
Sol. in water; insol. in organic solvents. Properties of algin vary with source and method of mfr. pH 5-10; viscosity of 1% by wt. water solution, (10 to 4000 cps.) Moisture content, 5-20%; particle properties. Algin includes many of the properties of gelatin, tragacanth, karaya, acacia and locust bean gum, Irish Moss and agar-agar, and is used in lower concentrations. As colloidal stabilizer in ice cream, water ices, and other frozen desserts; suspending agent for cocoa fibers in chocolate milk; colloidal agent in various foodstuffs such as cakes, doughnuts, icings, salad dressings, and confectionery; sizing in textile industry; print pastes; leather finishing; paper coating; pharmaceuticals; cosmetics; waterproofing agent for concrete; boiler-water treatment; water paints; can-sealing compds; ceramics; creaming latex in rubber mfr; oil-well drilling muds. Grades: Refined (food grades) and technical (commercial grades).

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Kelco Co, 31 Nassau St, N Y — Beekman 3-7367
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

†Algin Corp of Amer, N Y — Ken Preds Co, Inc, Newark, N J
Burtonite Co, Nutley, N J

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Cable Address: KELCOALGIN — New York

ALIZARIN (1:2—Dihydroxyanthraquinone, Acid Anthraquinonic)

$C_6H_4(CO)_2C_6H_2(OH)_2$. M.W. 240.06. Reddish-yellow, solid crystalline. M.P. 289°C. B.P. 430°C. Sol. alcohol, methanol, alkalies, ether; slightly sol. water. Uses—mfr. dyestuffs, color lakes; dyeing and finishing silk and wool; as photographical reagent. Grades—tech.; red cask and blue cask.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

ALKALOIDS

†Amer Quinine Co, 15 William St, N Y	Hanover 2-7983
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Chemo Pure Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200

ALKALOIDS
GLYCOSIDES

AND RELATED PLANT PRINCIPLES FOR MANUFACTURING AND RESEARCH PURPOSES

Complete List on Application

S. B. PENICK & COMPANY
50 CHURCH STREET, NEW YORK 7, N. Y. • TELEPHONE: CORTLANDT 7-1970
735 W. DIVISION STREET, CHICAGO 10, ILL. • TELEPHONE: MOHAWK 5651

ALKALOIDS (cont'd)

Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

CAFFEINE U.S.P.
HYDROUS AND ANHYDROUS
CAFFEINE CITRATED U.S.P.
THEOPHYLLINE U.S.P.
ANHYDROUS
AMINOPHYLLINE U.S.P.
ACETOPHENETIDIN U.S.P.

Chas. PFIZER & Co., Inc.
PFIZER QUALITY
Manufacturing Chemists Since 1849
630 Flushing Ave., Brooklyn 6, N.Y. • 425 N. Michigan Ave., Chicago 11, Ill. • 605 Third St., San Francisco 7, Calif.

ALLANTOIN

$C_4H_6O_3N_4$. M.W. 158. White crystals. Uses: medicinal.

†Amer Quinine Co, 15 William St, N Y	Hanover 2-7983
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Hexagon Labs, Inc, 3536 Pearlree Av, Bronx, N Y	Fairbanks 4-7550

†Schuylkill Chem Co, Phila, Pa

ALLOXAN (Mesoxylyluren)

$OC(NH.CO)_2CO$. M.W. 214. White crystals. Sol. water, alcohol. Uses: organic synthesis, cosmetic industry.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
Hexagon Labs, Inc, 3536 Pearlree Av, Bronx, N Y	Fairbanks 4-7550
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

†National Biochemical Co, Chicago, Ill

ALLOYS—see Equipment & Container Section

ALLYL AMINE

ALLYL BROMIDE
ALLYL ISOTHIOCYANATE
ALLYL THIOUREA
ALLYL MERCAPTAN

CONSOLIDATED MIDLAND CORPORATION
KATONAH, NEW YORK, U. S. A.

ALLYL AMINE

(3—Aminopropylene) $CH_2:CH.CH_2.NH_2$; mol. wt. 57.08; Nitrogen 24.55%. Colorless liquid; burning taste; strong ammonia odor, causing sneezing and tears. Sp. Gr. 0.744, Boils 55-58°. Miscible with water, alcohol, chloroform, ether.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919
†Jerala Prods Co, 894 Whittier St, Bronx, N Y	Dayton 3-1137
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

Allyl Amine

Pharmaceutical, dyestuff, and resin intermediate

Allyl Mercaptan

Pharmaceutical intermediate, resin raw material, rubber ingredient.

Manufacturers of high purity, organic chemicals in commercial quantities for use as intermediates, process raw materials and formula ingredients for the chemical, pharmaceutical, dyestuff and photographic reproduction industries.

EDWAL Quality Fine Chemicals

Edwal Laboratories • Ringwood, Illinois

ALLYL BROMIDE (Bromallylene)

CH_2CHCH_2Br. Colorless liq. Sp. gr. 1.398. B.P. 71.3°C. Insol. water. Sol. alcohol, ether. Uses—pharmaceuticals.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Dow Chem Co, Midland, Mich	Midland 500
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500
†Michigan Chem Corp, St Louis, Michigan	41
†Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

ALLYL CAPROATE

†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

ALLYL CAPRYLATE

†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Felton Chem Co, Inc, Bklyn, N Y	

ALLYL CHLORIDE (Chlorallylene, Trichloropropene, Alpha-Monochloropropolene)

CH_2CHCH_2Cl. Colorless liq. Sp. gr. .938. B.P. 44.6°C. Insol. Water. Sol. alcohol, ether. Uses—pharmaceuticals.

†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400

ALLYL HEPTOATE

Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

ALLYL IODIDE

CH_2CHCH_2I. Yellow liq. Sp. gr. 1.848. B.P. 103.1°C. Insol. water. Sol. alcohol, ether. Uses—organic synthesis, pharmaceuticals.

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C	2-7419
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Jorala Prods Co, 894 Whittier St, Bronx, N Y	Dayton 3-1137
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818

ALLYL ISOTHIOCYANATE

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
†Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Jorala Prods Co, 894 Whittier St, Bronx, N Y	Dayton 3-1137
Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970

ALLYL ISOVALERATE

Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
†Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

ALLYL MERCAPTAN

†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919

ALLYL THIOUREA

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919

ALOIN

A mixture of crystal principles (a pentoside or mixture of pentosides from aloe. Varies in chem. composition and physical and chemical properties according to variety of aloe from which obtained. Lemon-yellow to dark yellow, crystal powder, slight odor of aloe; bitter taste; darkens on exposure to air and light, solacetone and alkalis. Uses—medicine, stimulates fermentation.

Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Meer Corp, 318 W 46 St, N Y	Judson 6-0900
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Rosenthal-Barcow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120

ALPHA Compounds—Listed under first word following Alpha

ALUM AMMONIA (Aluminum Ammonium Sulfate)

$Al(NH_4)_2(SO_4)_2 12H_2O$. Colorless crystalline or white powd. Solid. Sp. gr. 1.6455 (20°C.). M.P. 94.5°C. Sol. water, glycerine. Insol. alcohol. Uses—mfr. artificial stones, pigments, lakes, paper, vegetable glues, porcelain and marble cements; purifying drinking water; printing and dyeing fabrics; in baking pwrs.; tanning; fire-proofing; in medicine. Grades—U.S.P.; C.P.; tech.; lump, ground, powdered.

ALUMS [Potash or Ammonia]

Lump • Nut • Pea • Granular • Powdered

Bags • Drums • LCL • Carloads

CONSOLIDATED CHEMICAL INDUSTRIES Inc.

ADDRESS INQUIRIES TO: 640 MELLIE ESPERSON BLDG., HOUSTON 2, TEXAS OR 630 FIFTH AVENUE, NEW YORK 20, N. Y.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
†Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas	CA2371
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Gusin St, Detroit, Mich	Lo 7-4650
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585

ALUMS COMMERCIAL · N. F. · REAGENT · U. S. P.

ALUMINUM SULFATE (Alum) Commercial • Reagent • N.F.

ALUMINUM SULFATE—Iron Free Commercial • Technical

AMMONIUM ALUM (Aluminum Ammonium Sulfate) Commercial • Reagent • U.S.P.

FERRIC AMMONIUM SULFATE Reagent

FERROUS AMMONIUM SULFATE, Technical

POTASSIUM ALUM (Aluminum Potassium Sulfate) Commercial • Reagent • U.S.P.

POTASH CHROME ALUM (Chromium Potassium Sulfate) Reagent • Photo

ALUMINUM CHLORIDE, Solution

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Offices in Principal Cities—See Directory ad.

GENERAL CHEMICAL DIVISION

ALLIED CHEMICAL & DYE CORPORATION

40 RECTOR STREET, NEW YORK 6, N. Y.

Cable Address: "LYCURGUS" NEW YORK, N. Y.

ALUM AMMONIA (cont'd)

†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysan Av, Newark, N J — Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Qualco Lab, 20 E Pittsburg Blvd, McKeesport, Pa — McKeesport 4-4278
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-5655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Carroll, R E, Inc, Trenton, N J — Interboro Chem Co, N Y
†Con Chem Industries, Inc, San Fran, Calif — Manahan Chem Co, Inc, Bklyn, N Y
Detroit Chem Wks, Detroit, Mich

ALUM AMMONIA CHROME

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Con Chem Industries, Inc, San Fran, Calif — Steidle Chem Co, Louisville, Ky

ALUM CHROME

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Le 7-4650
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-5655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Con Chem Industries, Inc, San Fran, Calif — Interboro Chem Co, N Y

ALUM POTASH (Alum, Alum Flowers, Alum Meal, Cube Alum, Aluminum Potassium Sulfate, Burnt Alum)

$AlK(SO_4)_2{\cdot}12H_2O$. White, solid, crystalline or powd. Sp. gr. 1.7371. M.P. 105°C. Sol. water; insol. alcohol. Uses—mfr. aluminum salts, matches, baking powd., margarine, writing inks, leather, paints, varnishes, lake pigments; catalyst in ammonia synthesis; substratum for color lakes; tanning agent; white taxidermy; paper size; gelatin film hardener; engraver; sugar clarifier; mordant in dyeing and printing; waterproofing and fireproofing agent; purifying water; hardening plaster casts; in medicine. Grades—U.S.P.; C.P.; tech.; lump, ground, powdered.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
†Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas — CA2371
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Le 7-4650
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712

ALUM POTASH (cont'd)

Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-5655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Interboro Chem Co, N Y — †Clifton Prods, Inc, Painesville, O
Manahan Chem Co, Inc, Bklyn, N Y — †Con Chem Industries, Inc, San Fran, Calif
Norman-Willets Co, Chicago, Ill — Detroit Chem Wks, Detroit, Mich

ALUM POTASH CHROME (Chromium Potassium Sulfate, Chrome Alum)

$Cr_2(SO_4)_3{\cdot}K_2SO_4{\cdot}24H_2O$. Dark, violet-red cryst. Sp. gr. 1.83 (0°C.). M.P. 89°C. Sol. water; insol. alcohol. Uses—mfr. porcelains, potteries, inks, chromium salts, waterproofing fabrics; tanning agent; photographic hardener and fixative; mordant in dyeing and printing textiles. Grades—C.P.; tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Boler Petroleum Co, 121 So Broad St, Phila, Pa — Kingsley 5-1323
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Le 7-4650
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Phillips Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120

†Con Chem Industries, Inc, San Fran, Calif — †Fiber Chem Corp, Matawan, N J

ALUM SODIUM (Aluminum Sodium Sulfate)

$AlNa(SO_4)_2{+}\ 12H_2O$. M.P. 61°C. Colorless cryst. or powd. Sol. water; insol. alcohol. Uses—same as those of Alum Potash. Grades—tech.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712

ALUMINA—see ALUMINUM OXIDE

ALCOA CHEMICALS

Activated Aluminas
Calcined Aluminas
Low Soda Aluminas
Tabular Aluminas
Hydrated Aluminas
Aluminum Fluoride
Sodium Acid Fluoride
Sodium Fluoride
Fluoboric Acid
Cryolite

ALCOA ALUMINUM

ALUMINUM COMPANY OF AMERICA
CHEMICALS DIVISION
608 Gulf Building · Pittsburgh 19, Pa.

ALUMINA ACTIVATED

Trade name product. A highly porous and granular form of aluminum oxide having preferential adsorptive capacity for moisture from gases, vapors and some liquids. It is available in granules ranging in size from a powder to pieces (1½ inches). Uses—drying gases and vapors, dehydrating cartridge in the liquid circuit of refrigerating systems, removal.

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa — Atlantic 1-4545
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Export Finders Bureau, 5 Bridge St, N Y — Bowling Green 9-2912
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

†Carborundum Co, Niagara Falls, N Y — Hardy, Charles, Inc, N Y

Kaiser

ALUMINA

- Calcined aluminas (Grade I: coarse, medium, fine, extra fine)
- Hydrated aluminas (Grade I: coarse and fine)

Your inquiry for special grades is invited.

CHEMICAL DIVISION
KAISER ALUMINUM & CHEMICAL SALES, Inc.
1924 Broadway, Oakland 12, California
1422 First National Tower, Akron 8, Ohio

ALUMINA HYDRATE

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa — Atlantic 1-4545
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Empire Chem Corp, N Y — Robins, G S, & Co, St Louis, Mo
†Reynolds Metals Co, N Y

ALUMINA HYDRATE

Type K - Basic Aluminum Sulfate
Type P - Basic Aluminum Phosphate

ALUMINUM BROMIDE, Anhydrous
CHLORAL (CCl_3CHO)
BLANC FIXE, (Barium Sulfate)
ETHYLENE DIBROMIDE
BROMINE, Liquid
HYDROBROMIC ACID, Anhydrous & 48%
CARBON TETRACHLORIDE, Technical and C. P.
HYDROGEN BROMIDE
METHYL BROMIDE

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Westvaco CHEMICALS

WESTVACO CHEMICAL DIVISION
FOOD MACHINERY AND CHEMICAL CORPORATION
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CHICAGO, ILL. • CLEVELAND, OHIO • CINCINNATI, OHIO
ST. LOUIS, MO. • LOS ANGELES, CALIF. • NEWARK, CALIF.

ALUMINUM ACETATE BASIC (Mordant Salt, Waterproofing Salts, Red Liquor, Oil Pulp, Printers' Acetate)

$Al(OH)(C_2H_3O_2)_2$. M.W. 162.02. White amorp. powd., also 20% sol., water white to pale yellow. Sp. gr. 1.09 (20°C.). M.P. 50°C. The 20% solution ($Al(C_2H_3O_2)_3$) decomposes on heating to the basic acetate. Slightly sol. water; sol. acids. Uses—mfr. color lakes, paints and varnishes; waterproofing and fireproofing textiles; mordant in dyeing and printing; embalming. Grades—tech.; C.P.; in solution.

ALUMINUM ACETATE BASIC (cont'd)

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Wise, Irving, & Co, Inc, N Y

ALUMINUM ACETATE, Normal

$(CH_3COO)_3Al$. M.W. 204.17. Amorph, white powd.; decomposes when heated. Sol. water.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

ALUMINUM AMINOACETATE

Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

ALUMINUM BROMIDE

$AlBr_3 \cdot 6H_2O$. Mol. wt. 374.81. Sp. gr. 2.5. B.P. 268°C. M.P. 93°C. Sol. water, alcohol, carbon bisulfide. Uses: organic synthesis.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
La Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
†Michigan Chem Corp, St Louis, Michigan — 41
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

ALUMINUM, CARBIDE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Jordan Co, Chicago, Ill

ALUMINUM CHLORIDE (Chloralum)

$AlCl_3 + 6H_2O$. M.W. 241.43. Yellowish white deliq. granular cryst. or powd. M.P. 190°C. (2.5 atms. pressure). B.P. 182°C. (752 mm. pressure). Sol. water, ether, alcohol. Uses—refining petroleum; catalyst organic, inorganic compounds; carbonising wool; assist in dyeing with indigo; water disinfectant; wood preservative; in medicine.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
†Cornwell Chem Corp, Cornwells Hgts, Pa — Cornwells 0302
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
†Elberta Chem Co, Inc, Ransomville, N Y
†Jordan Co, Chicago, Ill

ALUMINUM CHLORIDE ANHYDROUS

$AlCl_3$. M.W. 133.34. Yellow to greenish crystalline masses, dazzling white when pure, strong odor of HCl, explosive with water. M.P.

ALUMINUM CHLORIDE,
Anhydrous
Available in 4 mesh sizes
HOOKER ELECTROCHEMICAL CO.
4715 Buffalo Ave., Niagara Falls, New York
New York, N.Y. • Tacoma, Wash. • Wilmington, Calif.
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HOOKER CHEMICALS

For listings of other products see Catalog Section ad.

ALUMINUM CHLORIDE ANHYDROUS (cont'd)

182.7°C. Sublimes at 183°C. Sp. gr. 2.440 (20°C.). Absorbs moisture with decomposition, forming aluminum oxychloride and hydrochloric acid. Sol. water, chloroform, ether, carbon tetrachloride or carbon disulfide. Uses—synthesis of organic compounds. Grades—C.P. anhydrous; C.P. sublimed.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531

†Elberta Chem Co, Inc, Ransomville, N Y — †Nyotex Chems, Inc, Houston, Texas
Raco Chem Corp, N Y

ALUMINUM CITRATE

$Al_2(C_6O_7H_5)_2$. Colorl. to sltl. yel. granules. Composition variable. Uses—medicinal, mfg. glizarin pinks.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

ALUMINUM FLUORIDE

$AlF_3.3\frac{1}{2}H_2O$. M.W. 147.2. Colorless crystals that are soluble in water and lose 2 mol. of H_2O when heated to 120°C.; anhydrous has formula AlF_3. M.W. 83.97. A white powd. · Sp. gr. 3.1. Sol. water, acids, alkalies or alcohol.

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa — Atlantic 1-4545
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

ALCOA CHEMICALS

Activated Aluminas
Calcined Aluminas
Low Soda Aluminas
Tabular Aluminas
Hydrated Aluminas
Aluminum Fluoride
Sodium Acid Fluoride

Sodium Fluoride
Fluoboric Acid
Cryolite

ALCOA

ALUMINUM COMPANY OF AMERICA
CHEMICALS DIVISION
608 Gulf Building · Pittsburgh 19, Pa.

ALUMINUM FORMATE

$Al(CHO_2)_3.3H_2O$. White crys. salt. M. W. 215.97. Sol. water at 80° C. Decomp. on boiling. Uses: waterproofing, mordanting, anti-perspirant compounds, embalming compounds.

†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

ALUMINUM FORMATE, Basic

$Al(CHO_2)_2$. Solution water-white to pale yellow. Sp. gr. 1.191 (20°C.). Decomposes to basic formate on evaporation and heating. Uses—same as aluminum acetate.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

ALUMINUM FORMATE—30% Solution

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Trojan Powder Co, Allentown, Pa — 45201
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

ALUMINUM GLUCONATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330

ALUMINUM HYDROXIDE (Aluminum Hydrate, Aluminum Trihydrate, Hydrated Alumina, Precipitated Aluminum Oxide, Hydrargillite, Gibbsite, Diaspore)

$Al(OH)_3$. White, amorp. powd. or lumps. Sp. gr. 2.426. Insol water, alcohol. Sol. hot HCl, H_2SO_4 alkalies. Uses—mfr. aluminum salts, glassware, printing and lithographic inks, lubricants; filtering medium, substratum in lakes; sizing paper; waterproofing textiles; ceramic glaze; mordant in dyeing; purifying water. Grades—99% light and dense; U.S.P.; C.P.; tech.; lump, powder.

REHEIS FINE CHEMICALS

Aluminum Chlorhydroxide (Chlorhydrol)
Aluminum Hydroxide Gels • Kaolin (Colloidal)
Magnesium Carbonate • Magnesium Hydroxide
Magnesium Oxide • Magnesium Trisilicate
Stearates
(Aluminum, Calcium, Magnesium, Zinc)

Reheis Company, Inc.
Formerly Schofield-Donald Co., Inc.
Manufacturers of Fine Chemicals
Berkeley Heights, New Jersey • Tel. Summit 6-7110

ALUMINUM HYRROXIDE (cont'd)

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa — Atlantic 1-4545
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Blockson Chem Co, Patterson Rd, Joliet, Ill — Joliet 2-6601
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Broadway, Oakland, Calif — Twinoaks 3-4600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

ALUMINUM HYDROXIDE, COLLOIDAL GEL

White gelatinous ppt; Insoluble in water. Grades—tech; C.P.; W.S.P. Uses—Dyeing mordant; water purification; filtering medium.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Reheis Co Inc, Berkeley Hghts, N J — Summit 6-7110

ALUMINUM IODIDE

AlI_3: Brown, crystaline pieces; M.P. 185°C; B.P. 360°C. Sol. in water: Grades—Tech. Uses—organic synthesis.

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

ALUMINUM ISOPROPYLATE

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1250
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Fallek Prods Co Inc, 163 Bway, N Y — Barclay 7-7959
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

ALUMINUM LACTATE

$Al(C_3H_5O_3)_3$. M.W. 294.17. White to yellowish powder. Uses—medicinal.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

ALUMINUM LINOLEATE

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

ALUMINUM, Metal

Al. Silvery white metal. Sp. gr. 2.7. M.P. 658.5°C. B.P. 1800°C. Sol. alkalies and some acids. Uses—used for variety of purposes where great strength and low weight is desirable such as in cooking utensils, airplanes, boats, automobiles, furniture. Also used in alloys.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251

†Amer Metal Co, Ltd, N Y — †Reynolds Metals Co, N Y
†Kirk, Morris P, & Son, Inc, Los Angeles, Calif

ALUMINUM NAPHTHENATE

Amber colored, rubbery, non-sticky plastic solid. Uses—bodying agent and penetration inhibitor in paints, enamels, varnishes.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

ALUMINUM NITRATE

$Al(NO_3)_3.9H_2O$. Colorless, white crystalline, very hygroscopic. M.P. 73°C. (nine molecules of water of crystallization). B.P. decomposes at 100°C. Sol. cold water, alcohol, acetone. Uses—tanning leather, mordant in dyeing and printing textiles; incandescent electric light filaments. Grades—tech; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Selden & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430

SELDNER & ENEQUIST, Inc.

ESTABLISHED 1902

ESSANNEE

ALUMINUM NITRATE

MAGNESIUM NITRATE

86-112 Hausman Street, Brooklyn 22, N.Y.

EVergreen 8-7430

ALUMINUM OLEATE

$Al(C_{18}H_{33}O_2)_3 + 6H_2O$. Yellowish-white, solid gelatinous mass. Insol. water. Sol. turpentine, oil, alkalies; very slightly alcohol, hot ether, benzine. Uses—paint and varnish drier; waterproofing textiles; thickening lubricating composition; in turpentine solutions as lacquer for metals; as size. Grades—tech.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653

Beier Co, N Y

ALUMINUM OXALATE

$Al_2(C_2O_4)_3.4H_2O$. M.W. 390. White powder.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

ALUMINUM OXIDE (Alumina, Corundum)

Al_2O_3. White, amorp. powd. Sp. gr. 3.78. M.P. 2020°C. Sol. concentrated sulfuric acid; insol. water. Uses—mfr. dental cements, laboratory crucibles, refractory articles, ceramics, abrasives; filler in paints and varnishes; mordant in calico printing; in aluminum metal. Grades—from 8 mesh to finest powd.; C.P.; tech.

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa — Atlantic 1-4545
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749

†Carborundum Co, Niagara Falls, N Y
†Exolon Co, Tonawanda, N Y
Fay-Cole & Co, Inc, Boston, Mass
†Linde Air Prods Co, N Y
†Reynolds Metals Co, N Y

ALUMINUM PALMITATE

$Al(C_{16}H_{31}O_2)_3 + H_2O$. Yellowish-white, solid, amorp. Insol. water. Sol. alkalies, petroleum, oil, turpentine. Uses: varnish and paint ingredient, waterproofing paper, textiles, leather; increasing viscosity of lubricating oils; high gloss on leather and paper.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
†Metasap Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

ALUMINUM PASTE

Finely divided aluminum mixed with suitable vehicle. Uses: See aluminum powder.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
†Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

ALUMINUM PASTE (cont'd)

Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Argus Chem Lab, Inc, Bklyn, N Y
Crescent Bronze Powder Co, Chicago, Ill
Howell, Edwin B, Detroit, Mich
†Magna Mfg Co, Inc, Haskell, N J
†Reynolds Metals Co, N Y
Zimmerman, C L, Co, Cincinnati, O

ALUMINUM PHOSPHATE

$Al(PO_4)$. White powd. Sol. mineral acids. Insol. water. Uses—as a cement mixed with calcium sulfate and sodium silicate; as flux in ceramics.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8580
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

ALUMINUM m-PHOSPHATE

$Al(PO_3)_3$. Approx. chem analysis: Al_2O_3. 19.0%; P_2O_5. 79.0%. Loss on ign., 1.6%. Refractive index (Amor.)=1.542=0.005. Suggested applications are as a pigment in paper manufacture and as a source of Al_2O_3 and P_2O_5 in special glasses.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

ALUMINUM POWDER (Aluminum Flake)

Al. Silvery solid. Sp. gr. 2.702. M.P. 700°C. B.P. about 2300°C. Sol. acids, alkalies; insol. water. Uses—mfr. aluminum salts, pyrotechnics, photographic flashlights, aluminum paints and varnishes, ammoniacal and other explosive compositions, rubber ingredients, paper coating, potteries and porcelains, aluminothermia welding, chemicals, alloys, electrical conductors, fire brick; as catalyst mfr. ammonia; absorbing occluded gases in mfr. steel; in chemical analysis. Grades—dust, flake, standard unpolished, powdered.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
†Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Argus Chem Lab, Inc, Bklyn, N Y
Crescent Bronze Powder Co, Chicago, Ill
Drummond, S P, Inc, N Y
Grund, Henry L, Inc, Cleveland, O
McNulty, Joseph A, N Y
†Magna Mfg Co, Inc, Haskell, N J
Osgood, D H, Co, Detroit, Mich
†Reynolds Metals Co, N Y
†Robins, G S, & Co, St Louis, Mo
Zimmerman, C L, Co, Cincinnati, O

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Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

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$Al_2O_3.Si_2O_3$. M. W. 345.94. Sp. gr. 3.15.

Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Hamaill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864

ALUMINUM SILICATE (cont'd)

Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
†Aluminum Flake Co, Barberton, O
†Edgar Bros Co, Metuchen, N J
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†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky	Shawnee 1206
La Pine, Arthur S. & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
†Leffingwell Chem Co, P O Box 191, Whittier, Calif	Oxford 42-653
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8960
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
†Mathe Chem Co, 169 Millbank St, Lodi, N J	Prescott 9-4983
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Metasap Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959

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†Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
†Reheis Co Inc, Berkeley Hghts, N J — Summit 6-7110
Republic Chem Corp, 94 Beekman St, N Y — Recter 2-9810
Smith Chem & Color Co 'nc, 55 John St, Bklyn, N Y — Main 5-0567
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473

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†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2535
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

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Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

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†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360

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Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
†Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas — CA2371
†Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
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★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
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†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
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†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
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Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Carroll, B E, Inc, Trenton, N J
†Con Chem Industries, Inc, San Fran, Calif
Detroit Chem Wks, Detroit, Mich
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Hood Chem Co, Kansas City, Mo
Howard, Geo E, Harrisburg, Pa
Ideal Chem & Supply Co, Memphis, Tenn
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Lyon Chems, Inc, St Paul, Minn
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†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
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Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-5000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530

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★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
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†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
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AMIDES (cont'd)

†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

p-AMIDOPHENOL (Rodinol)

$C_6H_4OHNH_2$. Buff to brown powd. M.P. 185°C. with decomposition. Sol. hot water; insol. cold water. Uses—mfr. photographic chemicals, sulfur dyes, pharmaceuticals, para-amidophenol hydrochloride.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
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Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

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Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

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p-AMIDOPHENOL HYDROCHLORIDE

$C_6H_4OH.NH_2.HCl$. Gray to white crystalline powd. Sol. water. Uses—mfr. photographic chemicals, pharmaceuticals, dyes.

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†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

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Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
†Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

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p-AMINOACETANILIDE (Acetyl-p-Phenylenediamine)

$NH_2.C_6H_4.NH.CO.CH_3$. M.W. 150.09. White or slightly reddish needles. M.P. 160.5°C. Sol. water, alcohol, ether. Uses—mfr. azo dyes, intermediates, organic chemicals. Grades—90% powd.

†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531

AMINOAZOBENZENE (Para Aminodiphenylimide Phenylazoaniline, Aniline Yellow)

$C_6H_5N[1]:N.C_6H_4NH_2[4]$. M.W. 197.11. Brownish-yellow needle cryst. M.P. 126°C. B.P. below 360°C. Sol. alcohol, benzene, chloroform, ether. Slightly sol. water. Uses—mfr. derivatives, chrysoidine and induline dyes; coloring food products, and alcohol varnishes. Grades—tech.

†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

AMINOAZOBENZENE HYDROCHLORIDE

$C_6H_5N[1]:N.C_6H_4.NH_2[4].HCl$. Bluish needle cryst. or powd. Sol. alcohol, very slightly water. Uses—imparts color to lacquers.

†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300

AMINO-AZOTOLUENE (Orthoaminoazotoluene, Toluazotoluidine)

$C_{14}H_{15}N_3$. Dark yellow to red cryst. M.P. 80-128°C. (depending on position of groups). Sol. alcohol, chloroform, ether, fixed oils; very slightly water. Uses—mfr. intermediates, organic chemicals, dyestuffs pharmaceuticals. Grades—C.P.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Foster-Heaten Co, Paterson, N J

AMINOBENZOTHIAZOLE (2-Aminobenzothiazole)

$C_7H_6N_2S$. M.W. 150.19. Insol. water; sol. dilute acid, methanol. Uses: polymerization accelerator, organic synthesis.

†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

2 AMINO-1-BUTANOL

$CH_3CH_2CH(NH_2)CH_2OH$. Isomeric with 2 amino-2-methyl-1-propanol. Colorless, moderately viscous liquid. Sol. in water and most organic solvents.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

p-AMINODIETHYLANILINE HYDROCHLORIDE

†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

p-AMINO DIMETHYANILINE

†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

o-AMINO DIPHENYL

$C_{12}H_{11}N$. M.W. 169.098. Purplish crystals. Uses—organic synthesis. Ship. Class.—chemicals.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

AMINOETHYLETHANOLAMINE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

AMINOETHYL MORPHOLINE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

2-AMINO-2-ETHYL-1,3-PROPANEDIOL

$CH_2OHC(C_2H_5)(NH_2)(CH_2OH)$. Chemical properties of this compound are very similar to those of 2 Amino-2-methyl-1, 3 propanediol, described below. Due to low M.P. of 2 Amino-2-ethyl-1, 3 propanediol it may be a viscous liquid rather than a solid at room temp.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

AMINOGUANIDINE BICARBONATE (Aminate)

$NH_2NHC(NH_2)(:NH\cdot H_2CO_3)$. M.W. 136.09. White powder. Insol. cold water, alcohol. Uses: prep. of tetracene; dyestuffs; in photography.

†Trojan Powder Co, Allentown, Pa — 45201

2-AMINO HEPTANE

Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
†Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880

2 AMINO-2-METHYL-1, 3-PROPANEDIOL

$CH_2OHC(CH_3)(NH_2)(CH_2OH)$. Colorless, odorless solid. Sol. water and alcohols. Its soaps are valuable as emulsifying agents.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

2-AMINO-2-METHYL-1-PROPANOL

$CH_3C(CH_3)NH_2CH_2OH$: Colorless liquid white crystalline solid. Sp. Gr. .9934 at 20°C/20°C; B.P. (760 mm.) 165°C., (10 mm.) 67.4°C.; M.P. 28-26°C.; Soluble in water. Uses—Emulsifying agent for oils, fats and waxes; absorbent for acidic gases; chemical synthesis.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

m-AMINOPHENOL

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Fallek Prods Co Inc, 163 Bway, N Y — Barclay 7-7939
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
Hardy, M W, & Co, Inc, N Y — Sonnenschein, E, & Co, Inc, N Y

META-aminophenol

• Eastman m-aminophenol is used as a raw material for the preparation of p-aminosalicylic acid, a new chemotherapeutic for tuberculosis. It also serves as an intermediate in the manufacture of Chrome Brown P and Fur Brown GG. Available in fiber-drum lots.

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Co.)
KINGSPORT, TENNESSEE

EASTMAN INDUSTRIAL CHEMICALS

Sales Reps in principal cities—see ad in Catalog Section.

o-AMINOPHENOL

$C_6H_4(NH_2)(OH)$ 1:2. White, crystalline powd. M.P. 170°C. Sol. water, alcohol, ether. Uses—mfr. azo, sulfur, hair and fur dyes. Grades—tech.: 99%; photographic; U.S.P.

†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200
Feinberg, B G, N Y — Sonnenschein, E, & Co, Inc, N Y
Manahan Chem Co, Inc, Bklyn, N Y

o-AMINOPHENOL HYDROCHLORIDE

Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939

PARA-aminophenol

• Eastman p-aminophenol serves as an intermediate in the manufacture of sulphur colors and azo dyes. It is also suitable as an ingredient in fur, hair, and feather dyes. Available in drum lots.

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(Subsidiary of Eastman Kodak Co.)
KINGSPORT, TENNESSEE

EASTMAN INDUSTRIAL CHEMICALS

Sales Reps in principal cities—see ad in Catalog Section.

AMINOPHENOL SULFATE

†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939

AMINOPHYLLINE (Theophylline Ethylenediamine)

$(C_7H_8O_2N_4)_2\ C_2H_4\ (NH_2)_2\ 2H_2\ O$; mol. wt. 456.8; white or slightly yellow granules or powder; slight ammonia odor; bitter taste. Insol.—alcohol or ether. Keep tightly closed and away from light. Uses—Diuretics, coronary dilator.

Fine Chemicals — BPC

AMINOPHYLLINE

BENZOL PRODUCTS CO.
237 SOUTH STREEET — NEWARK 5, N. J.

AMINOPHYLLINE (cont'd)

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5803

Edw. S. Burke
J. P. Hollywood

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Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
Bodman, F L, Inc, Phila, Pa — †Drug Labs, Phila, Pa

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Dependable products throughout
• Exceptionally fine color
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2-AMINO PYRIDINE

$C_5H_6N_2$; mol. wt. 94.11; Nitrogen 29.77%; M. P. 58°C, B. P. 208 205°C; white leaflets or large, colorless crystals. Sol.—water, alcohol, benzine, ether, not petroleum benzin.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536

AMINOPYRINE (Pyramidone)

$C_4ON_2(CH_3)_4C_6H_5$. Colorless crystalline powder. M. P. 107°-109°C.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 3-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1250
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-5141
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Fisher Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-2587
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Lack Chem Co, 19 Park Pl, N Y	Cortlandt 7-5942
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

AMINOTHIAZOLE

$C_3H_4N_2S$. M. W. 100.14. Its general characteristics are: Appearance—light brown crystal, assay—98%, crystallising point—87.5°C. It is used chiefly in chemical syntheses.

Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

ANHYDROUS AMMONIA

HENRY BOWER CHEMICAL
MANUFACTURING COMPANY
29th & GRAY'S FERRY ROAD, PHILADELPHIA 46, PA.

AMMONIA ANHYDROUS

NH_3. Colorless gas, pungent odor. Liquefies at —77.7°C., higher temperatures at pressure above atmospheric pressure. Sp. gr. 0.7710 (gas). B.P. —33.4°C. at 760 mm. Sol. water, alcohol, ether. Uses—as a refrigerant (see also ammonia, water). Grades—tech.; pure.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800

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†Bower, Henry, Chem Mfg Co, Gray's Ferry Rd & 29 St, Phila, Pa	Howard 5-2100
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
†Commercial Solvents Corp, 17 E 42 St, N Y	VanderbiR 6-1600
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Dow Chem Co, Midland, Mich	Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300

ANHYDROUS AMMONIA

Uses: Refrigeration; water treatment in conjunction with chlorine; partial neutralization of phosphate fertilizer; vulcanization of rubber; nitriding of steel; neutralizing petroleum stocks before cracking.

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Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland	
Opalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa	McKeesport 4-4278
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186

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†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400
†Spencer Chem Co, 1004 Baltimore Av, Kansas City, Mo — Victor 2822
Wallen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Carroll, R E, Inc, Trenton, N J
Central O-B Prods Co, Inc, Buffalo, N Y
Hampden Color & Chem Co, Springfield, Mass
Herbert Chem Co, Cincinnati, O
Heyman, N H, Inc, N Y
Hood Chem Co, Kansas City, Mo
Howard, Geo E, Harrisburg, Pa
Leidy Chems Corp, Baltimore, Md
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio
†Phillips Chem Co, Bartlesville, Okla
Steidle Chem Co, Louisville, Ky
Ulrich Chem Co, Indianapolis, Ind

AMMONIA AQUA (Ammonia Water, Aqua Ammonium, Ammonium Hydrate, Ammonium Hydroxide, Spirits of Hartshorn)

NH_4OH. Varying properties according to compositions. Colorless solution of gas in H_2O. Sp. gr. 0.897 at 15°C. (28%). Tech. grade usually 29.4 (26° Bé). B.P. 38.5°C. Sol. water. Caution—mix with H_2SO_4 or other mineral acids with care. Uses—mfr. intermediates, organic compounds, synth. drugs, perfumes, ammonia soaps, ammonia salts, anhydrous ammonia, nitric acid (by synthesis), sodium cyanide, soda ash, ammonium nitrate, ammonium picrate, ammonium sulfate, ceramics, glues, cements, inks, laboratory reagents, paper, pulp, blue print paper, smelling salts; as cleansing, bleaching, fireproofing, and resin condensing agents; photographic developer; accelerator in phenolic condensations; refrigerant; vulcanization accelerator; solvent in making cuprammonium rayon; assist in dyeing and printing; in fireproofing wood; lubricating compositions; tanning leather; in brass, steel, and metal industries; electrotyping and photo-engraving; scouring wool; in sulfuric acid manufacture to furnish nitre oxides by oxidation; in medicine. Grades—16, 18, 20, 26 deg. solution; tech.; C.P.; U.S.P.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg 3-2151
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
†Bower, Henry, Chem Mfg Co, Gray's Ferry Rd & 29 St, Phila, Pa — Howard 5-2100
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Lo 7-4650
Export Finders Bureau, 6 Bridge St, N Y — Bowling Green 9-2912

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Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8500
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nitrogen Prods Inc, 450 7 Av, N Y — Bryant 9-1045
Nitrogen Prods, Inc, Benzol Div, 926 Harrison Av, Kearny, N J — Bergen 4-5478
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400
†Spencer Chem Co, 1004 Baltimore Av, Kansas City, Mo — Victor 2822
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
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MIXED ACID, varying proportions of Nitric and Sulfuric Acids to meet customers' requirements.

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Cable Address:
"LYCURGUS" NEW YORK, N. Y.

AMMONIUM ACETATE

$NH_4(C_2H_3O_2)$. M.W. 77.06. White, hygroscopic, crystalline mass, slight acetic acid odor. Sp. gr. 1.073. M.P. 108°C. Easily sol. in water. Sol. alcohol. Uses—laboratory reagent; assist in dyeing; in medicine. Grades—U.S.P. solution; 85% solution; cryst.; C.P. cryst.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg 3-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

Carroll, R E, Inc, Trenton, N J
Cascade Chem Co, Seattle, Wash
Coal Chems, Inc, Chicago, Ill
Collier, H C, & Sons, Binghamton, N Y
Globe Chem Co, Cincinnati, O
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†Milwaukee Solvay Coke Co, Milwaukee, Wisc
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AMMONIUM ALGINATE

A hydrophyllic vegetable colloid (ammonium salt of alginic acid) used in rubber manufacturing, can sealing compounds, etc.

Ducke, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
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AMMONIUM ALKYL PHOSPHATES

NH_4RHPO_4. Concentrated aqueous solutions of the ammonium salts of the monomethyl, ethyl, propyl, butyl, and amyl o-phosphates. Insoluble in alcohol. Find application as humectants and as fire-proofing compounds with the distinctive property that treated materials retain luster and flexibility. The butyl, and particularly the amyl, derivatives possess good penetrating ability.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

AMMONIUM BENZOATE

$C_6H_5COONH_4$. White odorless powd. free from foreign solids. Sp. gr. 1.260. Sol. in water, alcohol, glycerine. Uses—preservative for rubber, adhesives; in manufacture of medicinals. Cont.—100 pound paper-lined bbls.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2530
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

AMMONIUM BIBORATE

Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919

AMMONIUM BICARBONATE (Acid Ammonium Carbonate, Ammonium Hydrogen Carbonate)

NH_4HCO_3. White, granular or powdered. Sp. gr. 1.573. Decomposes at 58°C. Sol. water; insol. alcohol. Analyses at 21.8% NH_3, 66% CO_2, 22.5% H_2O. Uses—mfr. ammonia salts, dyes, fire extinguishing compounds; as leavening and degreasing agents; in medicine. Grades—pure; tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686

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AMMONIUM BICHROMATE (Ammonium Dichromate)

$(NH_4)_2Cr_2O_7$. M.W. 252.10. Orange-yellow, needle cryst. Sp. gr. 2.155. Decomposes on heating. Sol. water, alcohol. Uses—mfr. inks, alizarine, sporting smokeless powd., synth. perfumes; purifying fats and oils; pickling agent for candlewicks; reagent in gum printing; in process engraving, photo-engraving and lithography; as mordant in dyeing and printing. Caution—poisonous.

Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Mutual Chem Co of Amer, 270 Madison Av, N Y — Caledonia 5-9710
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3635

Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
†Hooper Chem Corp, Rutherford, N J — Norman-Willets Co, Chicago, Ill

AMMONIUM BICHROMATE (cont'd)

AMMONIUM BIFLUORIDE (Hydrogen Ammonium Fluoride, Ammonium Fluoride)

$(NH_4)FHF$. White cryst. Sp. gr. 1.211. Sol. water. Uses—mfr. ceramics, etching glass; sterilizing agent; laboratory reagent; general disinfectant; electroplating reagent; mordant for aluminum. Grades—tech.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
†Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

AMMONIUM BINOXALATE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

AMMONIUM BITARTRATE

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330

AMMONIUM BORATE (Ammonium Biborate, Ammonium Acid Tetraborate)

$NH_4HB_4O_7.3H_2O$. White cryst. Sp. gr. 2.38 to 2.96. Sol. water. Uses—mfr. fabrics; fireproofing; laundry purposes; fireproofing wood; in medicine. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919

AMMONIUM BROMIDE

NH_4Br. White, slightly hygroscopic cryst. or powd. Sp. gr. 2.548 (15°C.). Sublimes. Sol. water, alcohol, ether. Uses—precipitant of silver salts; in photography, engraving; laboratory reagent; in medicine. Grades—U.S.P.; C.P.; pure; tech.

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LITHIUM BROMIDE N.F. (Powder)
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AMMONIUM BROMIDE (cont'd)

†Amer Potash & Chem Corp, 122 E 42 St, N Y — Murray Hill 5-7142
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Dow Chem Co, Midland, Mich — Midland 500
†Hayden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Hoiskins, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
Le Boe, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Michigan Chem Corp, St Louis, Michigan — 41
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-9999
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-5800
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Tutour & Co, Inc, 60 Wall St, N Y — Digby 4-6660

AMMONIUM CARBONATE (Ammonia Crystals, Hartshorn Salts)

$(NH_4H)HCO_3 + (NH_4)(NH_2)CO_2$. Mixture of acid ammonium carbonate and ammonium carbamate. Analyses at 31% NH_3, 57% CO_2, 12% H_2O. White lumps, powd., chips or cubes. M.P. 58°C. Sol. cold water. Slightly sol. alcohol. Uses—mfr. ammonia salts, organic chemicals, casein colors, baking pwrs., casein glues and adhesives, fire extinguishing compounds, smelling salts and other perfume products, ceramics; as tanning, cleansing and vulcanizing agents; laboratory reagent; mordant in dyeing and printing; in washing wool; to make hollow goods; in medicine. Grades—U.S.P.; C.P.; tech.; powd., lump, cubes.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007

AMMONIUM CARBONATE (cont'd)

†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686
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AMMONIUM CHLORIDE (Sal Ammoniac, Ammonium Muriate, Salmac, Ammoniak)

NH_4Cl. White to grayish lumps, cryst. or powd. Sp. gr. 1.520 (17°C.). Volatilizes. Sol. water, glycerol. Uses—mfr. ammonia salts, synth. drugs, perfumes, inorganic and organic compounds, dyes, candles, washing powd.; as electrolyte in batteries and cells; fertilizer; soldering and galvanizing flux; rosin cement; pickling agent in tinning; mordant in dyeing and printing; in tanning leather; nickeling and platinizing liquors; in medicine. Grades—tech. (gray, white); U.S.P.; C.P. granulated, lump.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Cyanamid Co Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Davies Nitrate Co Inc, 118 Liberty St, N Y — Rector 2-6095
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hoiskins, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

†Callahan, Geo, & Co, Inc, Closter, N J — Phipps & Bird, Inc, Richmond, Va
†Jordan Co, Chicago, Ill — †Schuylkill Chem Co, Phila, Pa

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Sodium Bicarbonate	Citric Acid
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AMMONIUM CHROMATE

$(NH_4)_2CrO_4$. Yellow crystalline. Sp. gr. 1.846. M.P. 185°C. Sol. water. Insol. alcohol. Uses—mordant in dyeing textiles; sensitising photographic coatings. Grades—C.P.; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454

AMMONIUM CITRATE

$(NH_4)_2C_6H_6O_7$. White powd. or granules. Sp. gr. 1.479 (23°C.). Sol. water; slightly sol. alcohol. Uses—mfr. rust-proofing compositions, mordant in printing cottons; laboratory reagent. Keep from air.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

AMMONIUM ETHYL PHOSPHATE

75% soln. in water. Water-white to yellow tinge. Ammoniacal odor. Sp. gr. 1.23 at 25°C. pH 75% soln. 7.0-7.5. Viscosity at 25°C. 60 centipoises. Not stable to heat. When subjected to elevated temperature for any length of time as solution or while on any article will liberate ammonia with reduction in pH. Suggested use—as flame proofing agent for paper, textiles, etc.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

AMMONIUM FERROCYANIDE

$(NH_4)_4Fe(CN)_6.3H_2O$. M.W. 333.20. Greenish-yellowish crystals. Sol. water. Uses—as a reagent.

†Bower, Henry, Chem Mfg Co, Gray's Ferry Rd & 29 St, Phila, Pa — Howard 5-2100
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

AMMONIUM FLUOBORATE (Ammonium Borofluoride)

NH_4BF_4. M.W. 104.86. Hexagonal prisms. Sp. Gr. 1.831 at 17° C. Sol. water, alcohol. Packages as required.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

AMMONIUM FLUORIDE (Meat Salt)

NH_4F. White, deliq. crystalline. Sublimes. Sol. water; slightly sol. alcohol. Uses—mfr. fluorides, etching glass; as laboratory reagent, disinfectant and antiseptic in brewing; mordant in dyeing and printing, improving sandy soils. Caution—should be packed in rubber containers. Grades—tech.; C.P.; U.S.P. cryst.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sondheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214

AMMONIUM FORMATE

NH_4CHO_2. Colorless, deliq. cryst. Sp. gr. 1.266. Decomposes on heating. Sol. water, alcohol. Uses—mfr. ammonium oxalate, formamide; condensing agent in making rayon; in medicine. Grades—commercial.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330

AMMONIUM GLUCONATE

$NH_4C_6H_{11}O_7$. White powder. Uses—In foods as emulsifying agent for cheese and salad dressing.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

AMMONIUM HYPOPHOSPHITE

$NH_4H_2PO_2$. Crystals or white powder. Uses—Medicinal.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

AMMONIUM ICHTHYNATE

Brownish-black syrupy liquid. Burning taste. Uses—Medicinal.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

AMMONIUM ICHTHYOLSULFONATE—see Ichthyol

AMMONIUM IODIDE

NH_4I. M.W. 144.96. White cryst., hygroscopic or unstable powd. Sp. gr. 2.568. Sublimes on heating. Sol. water, alcohol. Uses—mfr. iodides; sensitive agent in making photographic films and plates; in medicine. Caution—store away from light. Grades—U.S.P.; C.P.; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

AMMONIUM LACTATE

$NH_4C_3H_5O_3$. Clear, colorless or slightly yellowish, syrupy liq. very hygroscopic. Sp. gr. 1.19—1.21 at 15°C. Miscible alcohol, water. Caution—keep cool, decomposes with heat. Uses—tanning and finishing leathers; electroplating baths. Grades—tech.

Ansenl Drug & Chem Co Inc, 117-119 E 24 St, N Y — Gramercy 3-3850
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007

AMMONIUM LINOLEATE

$NH_4C_{17}H_{31}CO_2$. Cream paste with ammoniacal odor. Uses—as detergent; emulsifying agent; reduces surface tension. Grades—tech.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

Beier Co, N Y

AMMONIUM MOLYBDATE (Basic Molybdate)

$(NH_4)_6Mo_7O_{24} + 4H_2O$. Colorless or slightly greenish or yellowish cryst. Sp. gr. 2.85—2.95. M.P. decomposes on heating. Sol. water. Uses—mfr. pigments; laboratory reagent. Grades—C.P.; tech. solution.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-3959

†Climax Molybdenum Co, N Y — †Shattuck, S W, Chem Co, Denver, Colo
†North Metal & Chem Co, York, Pa

AMMONIUM NAPHTHENATE

Tan paste with ammoniacal odor. Uses—as a detergent; as an emulsifying agent.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

AMMONIUM NITRATE

NH_4NO_3. M.W. 80.05. Colorless or white crystalline or granular powd. Sp. gr. 1.725. M.P. 169.6°C. Decomposes at 210°C. into water and nitrous oxide. Only sol. in water, alcohol, alkalies. Uses—mfr. laughing gas, military explosives, pyrotechnic compositions, insecticides, freezing mixtures, fertilizer; absorbent for nitrogen oxide. Grades—C.P.; tech.; cryst.; granulated.

AMMONIUM SULFATE

AMMONIUM NITRATE

CHEMATAR, INC.

40 Exchange Place — New York 5, N. Y.

Telephone: HAnover 2-0364

Cable Address: TARACHEM

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Davies Nitrate Co Inc, 118 Liberty St, N Y — Rector 2-6095
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Spencer Chem Co, 1004 Baltimore Av, Kansas City, Mo — Victor 2822
†Trojan Powder Co, Allentown, Pa — 45201

†Apache Powder Co, Benson, Ariz — Intnl Ore & Fertilizer Corp, N Y
Colorado Fuel & Iron Corp, Denver, Colo — †Phillips Chem Co, Bartlesville, Okla

AMMONIUM OLEATE (Ammonia Soap)

$NH_4C_{18}H_{33}O_2$. Yellow to brownish colored paste. Sol. alcohol, ether. Gives off strong ammonia odor. Uses—as a detergent; solidifying alcohol.

†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

AMMONIUM OXALATE

$(NH_4)_2C_2O_4 + H_2O$. Colorless crystalline. Sp. gr. 1.502. Decomposes on heating. Sol. water. Uses—mfr. oxalates, safety explosives; laboratory reagent. Grades—tech.; pure; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

AMMONIUM PERCHLORATE

$(NH_4)ClO_4$. White, solid crystalline. Dens. 1.95°C. Decomposes on heating. Sol. water. Uses—mfr. explosive compositions, pyrotechnics; etching and engraving agent; laboratory reagent. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

AMMONIUM PERIODATE

†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

AMMONIUM PERSULFATE

$(NH_4)_2S_2O_8$. White, crystalline, granules or powd. Sp. gr. 1.982 Decomposes on heating. Sol. water. Uses—mfr. persulfates, aniline dyes; preserving food; fat and oil deodorant; oxidizing metals; electroplating metals; general bleaching and oxidizing agent; photographic reagent; bleaching soap oils; depolarizer in electric batteries; washing infected yeast; in medicine. Grades—tech.; pure; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Sterwin Chems, Inc, 1450 Bway, N Y
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531

Hardy, Charles, Inc, N Y — Sergeant, E M, Pulp & Chem Co, Inc, N Y

AMMONIUM PHENOLSULFONATE (Ammonium Sulfocarbolate)

$C_6H_4(OH)SO_3NH_4$. M.W. 191.14. White, odorless crystals. Sol. water, alcohol. Uses: antiseptic.

†Dow Chem Co, Midland, Mich — Midland 500
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

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Phosphate Division
St. Louis 4, Mo.
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AMMONIUM PHOSPHATE, DI (Secondary Ammonium Phosphate, Hydrogen Diammonium Phosphate, Diammonium Orthophosphate)

$(NH_4)_2HPO_4$. White cryst. or powd. Sp. gr. 1.619. Sol. water. Insol. alcohol. Uses—fertilizer; fireproofing textiles and wood; in medicine. Grades—C.P. pure; tech., powd., or gran.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

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AMMONIUM PHOSPHATE, DI (cont'd)

†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

AMMONIUM PHOSPHATE HEMIBASIC

$NH_4H_2(PO_4)_2$. White crystals, slightly hygroscopic. Very sol. water. Decomposes in alcohol. Uses—pH adjustment; metal cleaning.

Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

AMMONIUM PHOSPHATE, MONO (Primary Ammonium Phosphate, Ammonium Biphosphate)

$NH_4H_2PO_4$. White powd. or colorless cryst. Sp. gr. 1.803. Sol. cold water. Uses—fertilizer; fireproofing textiles and wood; in medicine. Grades—C.P.; pure; tech.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

Gen Metallic Oxides Co, Jersey City, N J

AMMONIUM PHOSPHATE, TRI (Neutral Ammonium Phosphate, Triammonium Phosphate)

$(NH_4)_3PO_4 3H_2O$. Colorless cryst. or white powd. Loses water on heating. Decomposes in air to $(NH_4)_2HPO_4$. Sol. water. Uses—fertilizer; fireproofing textiles and wood; in medicine. Grades—C.P.; pure; tech.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267

AMMONIUM RICINOLEATE

$C_{17}H_{32}COONH_4$. White paste. Grades—tech. Uses—as a detergent; as an emulsifying agent.

†Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500

AMMONIUM SALICYLATE

$C_6H_3(OH)COONH_4$. M.W. 155.14. White, crystalline salt of monoclinic system. Sol. in water and alcohol. Uses—in medicine, as antipyretic and bactericide. Grade—U. S. P. XI.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Dow Chem Co, Midland, Mich — Midland 500
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

AMMONIUM SILICOFLUORIDE

$(NH_4)_2SiF_6$. M.W. 178.07 Sp. gr. 2.01. Colorless cryst. or white powd. Sol. water. Uses—disinfectant, antiseptic.

†Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
†Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585

AMMONIUM SILICOFLUORIDE (cont'd)

Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0612
†Sundheimer, Henry, Co, 103 Park Av, N Y	Murray Hill 5-4214
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y	Stillwell 4-0500

Kem Labs, Bronx, N Y

AMMONIUM SILICO FLUORIDE

•

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103 Park Ave. New York 17, N. Y.

Telephones: MUrray Hill 5-4214, 4215

AMMONIUM STEARATE

$C_{17}H_{35}.COONH_4$. M. W. 301. White paste with milky color, ammonia odor. Uses—Integral waterproofing agent for cements, concrete, stucco, etc. For the manufacture of water-repellant coatings for paper, textiles, rubber, etc.

†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
†Leffingwell Chem Co, P O Box 191, Whittier, Calif	Oxford 42-653
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
†Parsons, H W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y	Beekman 3-3162
†Reheis Co Inc, Berkeley Hghts, N J	Summit 6-7110
†Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

AMMONIUM SULFAMATE

$NH_2O\text{-}SO_2\text{-}NH_2$. M.W. 114.04. White, crystalline solid. M.P. 131°C. Soluble in water. Uses— flameproofing of textiles and paper stock.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
Pearson Ferguson Chem Co, Kansas City, Mo	

AMMONIUM SULFATE

$(NH_4)_2SO_4$. M.W. 115.11. Brownish gray to white cryst. Sp. gr. 1.7687. M.P. 513°C., d. Decomposes before it melts to certain extent. Complete decomposition at 300°C. Sol. water. Uses—mfr. candles, ammonia, electric batteries; fireproofing textiles, wood, etc.; fertilizer; soldering and galvanizing agent. Grades—C.P.; commercial.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220

DAVISON *Silicofluorides*

AMMONIUM SILICOFLUORIDE $(NH_4)_2\ SiF_6$

Technical grade, white, water soluble, fine crystal, minimum 98% $(NH_4)_2\ SiF_6$; inert ingredients not over 2%.

Uses: Laundry sour; disinfectant; magnesium sand casting; glass etching; chemical reagent.

MAGNESIUM SILICOFLUORIDE $(Mg\ SiF_6 \cdot 6H_2O)$

Technical grade, white granular crystal; minimum 98% $MgSiF_6 \cdot 6H_2O$; inert ingredients not over 2%.

Uses: principally as concrete hardener, waterproofer and primer preparatory to painting; in ceramic industry.

ZINC SILICOFLUORIDE $(Zn\ SiF_6 \cdot 6H_2O)$

Technical grade, white granular crystal; minimum 97% $ZnSiF_6 \cdot 6H_2O$; inert ingredients not over 3%.

Uses: Concrete hardener when used in combination with magnesium silicofluoride; laundry sour; wood preservation and mothproofing agent.

CASTING COMPOUND

Casting Compound 23-A is used in the magnesium casting industry. Prevents easily oxidizable metals such as magnesium and magnesium alloys from oxidizing or burning in green sand molds. Used as a flux in melting and pouring magnesium alloys.

POTASSIUM SILICOFLUORIDE

Technical grade; white, odorless fine crystalline powder minimum 97% K_2SiF_6; inert ingredients not over 3%.

Uses: metallurgy of aluminum, in manufacture of porcelain enamel, opalescent glass, artificial marble, as an insecticide, as a chemical intermediate.

★

Shipment in 100 and 400 lb. containers by rail, truck, or water.

Many other uses than those listed are possible. Requests for small quantities for experimental purposes will be given prompt attention. Ask our Technical Service Department for assistance.

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†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg 5-2151
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
†Consolidated Chem Industries, Inc, 640 Mellie Esperan Bldg, Houston, Texas	CA2571
Davies Nitrate Co Inc, 118 Liberty St, N Y	Rector 2-6095
De Bar Inc, 636 11 Av, N Y	Plaza 7-0960
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Nitrogen Prods Inc, 450 7 Av, N Y	Bryant 9-1045

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Ind. 90%		Ten Degree
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AMMONIUM SULFATE (cont'd)

Nitrogen Prods, Inc, Benzol Div, 926 Harrison Av, Kearny, N J	Bergen 4-5478
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa	McKeesport 4-4278
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
†Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
†Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531

AMMONIUM SULPHATE

ALL GRADES *and other*

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Republic Chemical Corp.

94 Beekman Street, New York 7

Cable Address: Jaynivrad

Tutsur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

Chem Supply Co, Neenah, Wisc	Intnl Ore & Fertilizer Corp, N Y
Coal Chems, Inc, Chicago, Ill	McIver, Alex M, & Son, Charleston, S C
†Colorado Fuel & Iron Corp, Denver, Colo	Patek & Co, San Fran, Calif
†Con Chem Industries, Inc, San Fran, Calif	†Phillips Chem Co, Bartlesville, Okla
Hardy, M W, & Co, Inc, N Y	Priddy, C W, & Co, Inc, Norfolk, Va
Huber, L W, Co, N Y	†Schuylkill Chem Co, Phila, Pa
Inco Trading Co, N Y	Talve Trading Co, N Y
†Inland Steel Co, Chicago, Ill	Woodward & Dickerson, Inc, Phila, Pa
†Interlake Iron Corp, Cleveland, O	

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UNITED STATES STEEL

AMMONIUM SULFIDE (Ammonium Hydrogen Sulfide, Ammonium Hydrosulfide)

$(NH_4)HS$. True ammonium sulfide is stable only below 0°C. and has the formula $(NH_4)_2S$. Article of commerce, usually yellowish cryst. Sol. water, alcohol, alkalies. Uses—mfr. photographic developers; finishing fabrics, laboratory reagent; for coloring brass, bronze, copper; denitrating nitrocellulose to produce "oxidized silverware." Must not be exposed. Grades—tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Chem Prods Corp, Cartersville, Ga	Cartersville 798
Fassy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
†Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430

†Halby Chem Co, Inc, Wilmington, Del

AMMONIUM SULFITE

$(NH_4)_2SO_3 + H_2O$. Colorless, deliq. cryst. Sp. gr. 1.41 (25°C.). Sol. water when alkaline. Sublimes at high temperatures. Uses—mfr. intermediates; as reducing agent; in medicine. Should be kept well stoppered.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980

AMMONIUM SULFOCYANIDE

(Ammonium Sulfocyanate, ammonium thiocyanate) NH_4SCN mol. wt. 76.11; Sp. Gr. 1.3087; M. P. 159°C; Sol.—water and alcohol. Uses—Analytical chemistry; chemicals fertilizers; photography; ingredient of freezing solutions.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676

†Halby Chem Co, Inc, Wilmington, Del

AMMONIUM SULFORICINOLEATE

Clear amber liquid. Uses: blended with paraffin oil to produce emulsion type furniture polish.

†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200

AMMONIUM TARTRATE

$COONH_4.CHOH.CHOH.COONH_4$. M.P. 184.13. Colorless crystals. Sol. water.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330

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Kegs and barrels are now lined with polyethylene plastic. This tough lining prevents water absorption... keeps ammonium thiocyanate dry.

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Tar Products Division, Pittsburgh 19, Pa.

AMMONIUM THIOCYANATE (Ammonium Sulfocyanide Rhodanide)

NH_4SCN. Colorless, solid, deliq. crystalline. Sp. gr. 1.3057. M.P. 159°C. Decomposes at 170°C. Sol. water, alcohol. Uses—mfr. freezing solutions, cyanides and ferro-cyanides, thiourea, fertilizer; for coating zinc; as laboratory and photographic reagents; dyeing and printing textiles; increasing strength of weighted silks. Grades—C.P.; tech.; recrystallized.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa	Atlantic 1-6240
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676

†Halby Chem Co, Inc, Wilmington, Del

AMMONIUM THIOGLYCOLATE

$HSCH_2COONH_4$. M.W. 109.15. White crystalline powder; slightly ammoniacal odor. Sol. in water. Uses: cold permanent waving solutions.

AMMONIUM THIOGLYCOLATE

made from
Vacuum Distilled
Thioglycolic Acid

◆

EVANS CHEMETICS, INC.
250 East 43rd Street
NEW YORK 17, N.Y.

AMMONIUM THIOGLYCOLATE (cont'd)

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

†Halby Chem Co, Inc, Wilmington, Del — Norco Prods Co, Phila, Pa
†Norco Prods Co, Phila, Pa

AMMONIUM THIOSULFATE

$(NH_4)_2S_2O_3$. M.W. 148.21. Colorless crystals. Very sol. water; insol. alcohol, ether. Uses: photographic fixing agent, cleaning metals.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000

Ammonium Thiosulfate
(Crystals and 60% solution)
Rapid photographic fixer

Benzotriazole
Restrainer in photography

Manufacturers of high purity, organic chemicals in commercial quantities for use as intermediates, process raw materials and formula ingredients for the chemical, pharmaceutical, dyestuff and photographic reproduction industries.

E D W A L
EDWAL Quality Fine Chemicals
Edwal Laboratories • Ringwood, Illinois

AMMONIUM UNDECYLENATE

$CH_2CH(CH_2)_8COONH_4$. Brown paste, with ammonical odor. Uses—as a detergent; as an emulsifying agent; as a drier. Grades—tech.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

AMMONIUM VALERATE

$NH_4C_5H_9O$. Colorless or white crystals. Nauseating odor. Uses—medicinal.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

AMMONIUM VANADATE

NH_4VO_3. White to yellowish crystalline powd. Sp. gr. 2.326. Decomposes at 210°C. Sol. water. Uses—mfr. vanadates, writing and printing inks, paint and varnish driers; mordant in dyeing and printing; to produce vanadium lustre on pottery.

Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894

†Shattuck, S W, Chem Co, Denver, Colo

AMMONIUM METAVANADATE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

Chem Commerce, Newark, N J — †Vanadium Corp of Amer, N Y
†Shattuck, S W, Chem Co, Denver, Colo

AMPHETAMINE

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-5141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2850
†Lasrex Chem Corp, 25 Bway, N Y — Digby 4-4543
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
†Sumner Chem Co, Inc, 52 Wall St, N Y — Digby 4-3880

†Arenol Chem Corp, Long Is City, N Y — †Purocaine, Inc, N Y
Bodman, F L, Inc, Phila, Pa — †Red Star Chem Co, Inc, Long Is City, N Y
†Drug Labs, Phila, Pa

Fine Chemicals BPC

AMPHETAMINE

BENZOL PRODUCTS CO.
237 SOUTH STREET — NEWARK 5, N. J.

AMYL ACETATE (Banana Oil, Amylacetic Ester, Isoamyl Acetate, Pear Oil, Pentyl Acetate)

$CH_3CO_2C_5H_{11}$. M.W. 130.11. Colorless liq. banana or pear odor. Sp. gr. 0.866-0.869 (18°C.). M.P. 75°C. B.P. 147.6°C. Sol. alcohol, ether. Very slightly sol. water. Uses—mfr. gun-cotton, smokeless powd., fruit flavors, soft drinks, food preparations, confectionery, artificial leather, artificial pearls, fireproofing and waterproofing compositions, lacquers, waterproofed varnishes, bronzing liquids, celluloid, collodium, photographic films, camphor; as solvent in making nitro-cellulose; solvent in making rayons; perfume and soap solvents; combustible in standard photo-metric lamp; photo-engraving; linoleum and oil-cloth; dyeing, printing and finishing textiles. Grades—pure, from pentane; tech.

Acete Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0663
Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Coburn, C B Co, 63 Market St, Lowell, Mass — Lowell 9331
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Ecclestone Chem Co, Inc, 2669-79 Gusin St, Detroit, Mich — Lo 7-4650
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

PENT-ACETATE
AMYL ACETATE

Sharples Chemicals Inc. PHILADELPHIA • CHICAGO • NEW YORK

AMYL ACETATE (cont'd)

Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Rosenthal-Bercov Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
†Sharples Chems Inc, Phila, Pa	Kingsley 5-2802
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Stoney-Mueller Inc, Page & Newark Ars, Lyndhurst, N J	Rutherford 2-7420
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760

Martin Hoyt & Milne, San Fran, Calif Slater-Robbins, Inc, Long Is City, N Y

AMYL ACETATE, Secondary

$CH_3COOC_5H_{11}$. **Water-white liq. Sp. gr. 20°/20°C. 0.862-0.866. Weight per gal. at 20°C. 7.19 lb. Fire hazard—combustible but not inflammable, flash point over 80°F. Uses—as a medium boiling solvent; as a nitrocellulose solvent; in mfr. of airplane dopes, artificial leather, artificial pearl, automobile polishes, celluloid products, cements, coated paper, lacquers, leather finishes, linoleum, nail enamels, patent leather, plastic wood, textile compounds, washable wall paper.**

Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I Hopkins 1-0770

AMYLAMINE

$C_5H_{11}NH_2$. Uses: pharmaceuticals, dyestuffs, rubber accelerators, antioxidants, emulsifying agents, desizing agents for textiles, corrosion inhibitor.

Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Sharples Chems Inc, Phila, Pa	Kingsley 5-2802

AMYL BENZOATE

$C_6H_5COOC_5H_{11}$. **Colorless liquid. Uses—perfumery.**

Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

AMYL BROMIDE (Iso)

$(CH_3)_2CH(CH_2)_2Br$. **Colorless liq. Sp. gr. 1.219. B.P. 120-120.6°C. Insol. water. Sol. alcohol, ether. Uses—organic synthesis, pharmaceuticals. Grades—pure, tech.**

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C	2-7419
†Dow Chem Co, Midland, Mich	Midland 500
†Halogen Chems, Inc, 616 King St, Columbia, S C	7125
†Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

AMYL BROMIDE, Secondary (2-Bromopentane)

$C_5H_{11}Br$. **M.W. 151.05. Sweet colorless liquid. Soluble in acetone, benzene, carbon tetrachloride, methanol, ether; insol. in water. Uses: pharmaceutical intermediate.**

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C	2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C	7125
Michigan Chem Corp, St, Louis, Michigan	41
†Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

n-AMYL BROMIDE (n-Bromopentane)

$CH_3(CH_2)_4Br$. **Colorless liq. B.P. 127.9°C. Sp. gr. 1.223. Insol. water. Sol. alcohol, ether. Uses—organic synthesis, pharmaceuticals. Grades—pure, tech.**

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C	2-7419
†Dow Chem Co, Midland, Mich	Midland 500
†Halogen Chems, Inc, 616 King St, Columbia, S C	7125
Le Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

AMYL BUTYRATE (Isoamyl Butyrate, Isoamylbutyric Ester)

$CH_3(CH_2)_2COOC_5H_{11}$. **Colorless liq. Sp. gr. 0.850-0.860 (15°C.). M.P. 168.8°C. if pure. Sol. alcohol, ether. Slightly sol. water. Uses—mfr. intermediates, organic chemicals, flavoring extracts, liqueurs. Grades—pure, tech.**

Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

†Felton Chem Co, Inc, Bklyn, N Y

AMYL CAPRATE

Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

AMYL CHLORIDE (Iso)

$CH_3.CH_2.CH_2.CH_2.CH_2.Cl$. **Colorless or straw color liq. Sp. gr. (20°C.) 0.885. Sol. alcohol, ether. Weight per gal. 7.38 lbs. Uses—solvent in nitrocellulose, varnishes, lacquers, chemicals, plastics; miscellaneous solvent; in waterproofing textiles.**

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C	2-7419
†Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

AMYL CHLORIDE, Normal (1-Chloropentane)

$C_5H_{11}Cl$. **M.W. 106.6. Sweet colorless liquid. Insol. water. Uses: sources of n-Amyl group, pharmaceutical intermediate.**

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C	2-7419
†Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

AMYL CHLORIDE, Tertiary

$C_5H_{11}Cl$. **M.W. 106.6. Sweet odorless liquid. B.P. 85° C. Insol. water. Uses: organic syntheses.**

Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C	2-7419

AMYL CHLORIDES, MIXED

$C_5H_{11}Cl$. **M.W. 106.58. Straw to deep purple color. Sp. Gr. 0.88. Uses: synthesis of other "amyl" compounds; solvent.**

†Sharples Chems Inc, Phila, Pa Kingsley 5-2802

alpha-AMYL CINNAMIC ALDEHYDE

Clear yellow, oily liquid. Jasmin-like odor. Aldehyde content 99-100%. Sp. Gr. 0.968-0.973 (15°C); boiling range 116°-120°C (1.5 mm). Uses—perfumery.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

AMYL 2,4-DICHLOROPHENOXYACETATE

Colorless liquid containing equivalent of approximately 76% of 2,4-D acid. Insol. water; sol. alcohol, kerosene, diesel oil, aromatic petroleum fractions. Uses: for formulation in weed killers.

†Riverdale Chem Co, 324 E 147 St, Harvey, Ill Riverdale 1880

AMYL FORMATE (Isoamyl Formate, Formic Ester, Normal)

$H.COO.C_5H_{11}$. **M.W. 116.13. Made by treating isoamyl alcohol with formic acid. Has plum smell and is almost water-white. Sp. gr. 0.871 (0°C). B.P. 123.3-125°C. Ester value 483.8. Miscible in alcohol or ether, very slightly in water. Uses—as a pyroxylin solvent; perfuming leather.**

Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

†Felton Chem Co, Inc, Bklyn, N Y

AMYL IODIDE-Iso (Iso-iodopentane)

$(CH_3)_2CH(CH_2)_2I$. **M.W. 198.02. Colorless liq. Sp. gr. 1.510. B.P. 148°C. Insol. water. Sol. alcohol, ether. Uses—organic synthesis, pharmaceuticals. Grades—pure, tech.**

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C	2-7419
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

AMYL IODIDE, Normal (Iodopentane)

$CH_3(CH_2)_4I$. **Colorless liq. Sp. gr. 1.517. B.P. 156°C. Insol. water. Sol. alcohol, ether. Uses—organic synthesis, pharmaceuticals. Grades—pure, tech.**

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C	2-7419
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
†Halogen Chems, Inc, 616 King St, Columbia, S C	7125
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

AMYL LAURATE

$C_{11}H_{23}COOHC_5H_{11}$. **Sp. gr. 0.860 at 20°C. Boiling range 290-330°C.**

†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
†Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140

AMYL MERCAPTAN (Pentanethiol)

$C_5H_{11}SH$. **M.W. 104.14. Dist. Range, 80-125°C. Sp. gr. 0.8248 (20°C.). Vapor Pressure 29 mm. (22°C.). Viscosity 0.005666 Poise (20°C.). Refract. Index 1.4406 (20°C.). Surface Tension 26.7**

MERCAPTANS
Amyl Mercaptan
tert-Dodecylmercaptan
Pentalarm (warning agent for fuel gases)
Sharples Chemicals Inc. PHILADELPHIA - CHICAGO - NEW YORK

AMYL MERCAPTAN (cont'd)

Dynes/cm. (18°C.). Spec. Heat at room temp., 0.48 cal./gram. Heat of vap., 78 cal./gram. Coeff. of Exp., 0.00110 (20-60°C.). Avail. commercially as a mixture of its various isomers. Uses—as a stench; as a flotation reagent; starting point in organic syntheses.

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C 2-7419
†Sharples Chems Inc, Phila, Pa Kingsley 5-2802

AMYL MERCAPTAN, tertiary

$C_5H_{11}SH$. M.W. 104.36. Boiling range 96-121°C. Use: chemical intermediate.

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla 6600

AMYL MYRISTATE

Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill Graceland 7-3030
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa Devonshire 8-0800

AMYL NAPHTHALENES (Mixed)

Refined: Yellow to brown viscous oily liq. Sp. gr. at 20°C. 0.94-0.98. Distillation—initial B.P. not below 288°C.; 95% distils below 362°C.; final B.P. not above 367°C. Weight per gal. 7.90 lbs. A distilled mixture of monoamyl and diamyl naphthalenes, each containing the amyl group in its isomeric forms; are alkylated aromatic hydrocarbons not affected under ordinary conditions by water or dilute acids or alkalies. Uses—high-boiling solvent and plasticizer for synthetic resins and asphaltic materials; in manufacturing of certain types of inks and vitrifiable colors; as a medium for constant temperature baths; coupling agent for certain vegetable and mineral oils; in manufacturing of chemicals for the textile industry.

†Sharples Chems Inc, Phila, Pa Kingsley 5-2802

AMYL OLEATE

$C_{17}H_{33}COOC_5H_{11}$. M.W. 352.34. Sp. gr. 0.862. Boiling range 253-272°C. M.P. 6.0°C. Water-white, faint fruity odor.

†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J Harrison 6-6200

AMYL PHENOL

†Sharples Chems Inc, Phila, Pa Kingsley 5-2802

o-AMYL PHENOL

$C_5H_{11}C_6H_4OH$. M.W. 164.12. Color—pale yellow. Sp. gr. at 30°C. 0.96-0.97. Distillation—initial boiling point not below 233°C., final boiling point not above 245°C. Flash point 219°F. Wt. per gal 8.12 lbs. Uses—anti-skinning agent for paints, varnishes and oleoresinous enamels.

†Sharples Chems Inc, Phila, Pa Kingsley 5-2802

PENTAPHEN
P-TERT-AMYLPHENOL
Sharples Chemicals Inc. PHILADELPHIA - CHICAGO - NEW YORK

p-AMYL PHENOL, Secondary

$C_5H_{11}C_6H_4OH$. M.W. 164.2. Light straw solid. Uses: organic synthesis.

†Sharples Chems Inc, Phila, Pa Kingsley 5-2802

p-Tertiary-AMYL PHENOL

$C_5H_{11}C_6H_4OH$. Sp. gr. 0.91-0.94 (95°C.). M.W. 164. Softening Point not less than 80°C. Final Melting Point not less than 88°C. Distillation 90% bet. 250-265°C. Solubility—sol. 10% aqueous KOH. F.P. 256°F. Insol. water; readily sol. most organic solvents. Impurities—non-volatile matter, not over 0.001%. Free phenol, less than 0.1%. Very small amounts of amyl phenyl ethers and secondary amyl phenol. Uses—mfr. oil soluble varnish resins of phenol-formaldehyde type.

†Sharples Chems Inc, Phila, Pa Kingsley 5-2802

AMYL PHOSPHATE

C_5H_{11}. H_3PO_4. Syrupy liquid. Uses—solvent, plasticizer.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill Harrison 7-3541

AMYL PROPIONATE

$CH_3.CH_2CO_2C_5H_{11}$. Water-white liq. Sp. gr. 0.863-0.866 at 20°/20°C. Wght. per gal., 7.19 lbs. at 20°C. B.P. 160°C. Uses—solvent for nitrocellulose where high-boiling solvent is desirable; in brushing lacquers.

Dodge & Olcott, Inc, 180 Varick St, N Y Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y Lackawanna 4-6500
†Polak & Schwarz Inc, 667 Washington St, N Y Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y Rector 2-1140
†Verona Chem Co, 26 Verona Av, Newark, N J Humboldt 3-3200

†Felton Chem Co, Inc, Bklyn, N Y

AMYL SALICYLATE

$HOC_6H_4CO_2C_5H_{11}$. M.W. 208.12. Colorless liq. with odor of orchids or clover. Sp. gr. 1.065 (15°C.). B.P. 265°C. Ester Value 269.9. Optical rotation to 0.2°C. Refractive index 1.508-1.507. Made by adding sulfuric to mixture of isoamyl alcohol, salicylic acid and final distillation. Sol. very slightly in water; miscible in alcohol, ether, chloroform. Uses—as perfume base; in soap manufacture; in medicine. Grades—pure; tech.

†Aromatic Prods Inc, 15 E 30 St, N Y Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y Lackawanna 4-6500
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa Devonshire 8-0800
Lueders, Geo, & Co, 427 Washington St, N Y Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y Walker 5-1110
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y Evergreen 8-5600
†Polak & Schwarz Inc, 667 Washington St, N Y Watkins 4-5570
†Verona Chem Co, 26 Verona Av, Newark, N J Humboldt 3-3200

AMYL STEARATE

$C_{17}H_{35}COOC_5H_{11}$. Pale yellow liq. Distillation, 100% between 230-270°C. at 30 mm. Sp gr. (20°C.) 0.856 to 0.864. M.P. 15°C. Acidity as stearic acid—not over 2%. Weight per gal., 7.16 lbs. Uses—where a high boiling inert plasticizer is desired; as a cellulose ester solvent and plasticizer.

Angus, W W, Inc, 220 Bway, N Y Cortlandt 7-5728
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J Harrison 6-6200

ANETHOL

$C_6H_5C_6H_4(OCH_3)$. Colorless, crystalline mass, liquid at ordinary temperatures. M.P. 21-22°C. B.P. 232-234°C. Uses—Perfumery, flavoring.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y Murray Hill 6-0661
Barclay Chem Co, Inc, 75 Varick St, N Y Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y Murray Hill 3-3202
City Chem Corp, 132 W 22 St, N Y Watkins 9-2723
†Dodge & Olcott, Inc, 180 Varick St, N Y Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St Watkins 9-1570
Fallek Products Co Inc, 163 Bway, N Y Barclay 7-7939
Florasynth Labs Inc, 1513 Olmstead Av, N Y Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y Watkins 9-4100
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y Rector 2-0262
†Gane & Ingram, Inc, 43 W 16 St, N Y Watkins 4-5404
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y Lackawanna 4-6500
†Hercules Powder Co, 978 Market St, Wilmington, Del
Lueders, Geo, & Co, 427 Washington St, N Y Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y Walker 5-1110
Mutchler Chem Co, Inc, 258 Bway, N Y Digby 9-4735
†Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y Digby 4-4870
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y Murray Hill 3-7500
Tombarel Prods Corp, 12 E 22 St, N Y Gramercy 7-4530
Tuteur & Co, Inc, 60 Wall St, N Y Digby 4-6660
†Verona Chem Co, 26 Verona Av, Newark, N J Humboldt 3-3200

†Crosby Chems, Inc, De Ridder, La Gunning & Gunning, Inc, N Y
Felton Chem Co, Inc, Bklyn, N Y

ANILINE (Aniline Oil, Aminobenzene, Phenylamine, Aminophen, Cyanol, Benzidam)

$C_6H_5NH_2$. Colorless liq. Sp. gr. 1.026-1.027 (15°C.). B.P. 184.4°C. Sol. alcohol, ether. Slightly sol. water. Uses—mfr. derivatives, intermediates, synth. perfumes, pharmaceuticals, salvarsan, toluidine, acetanilide, aniline colors, aniline salts, paint and varnish, azo dyes, tetranitroaniline, blueprint papers; as stabiliser in gun pwrs.; germicide; vulcanization acceleration; assist in dyeing and calico printing. Poisonous, inflamm. Grades—C.P.; pure; commercial.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Dow Chem Co, Midland, Mich	Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Fisher Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-2587
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660

ANILINE

DOW

THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products
Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.
See listing ad for other products

ANILINE SALT (Aniline Chloride, Aniline Hydrochloride)

$C_6H_5NH_2HCl$. White crystalline plates. Sp. gr. 1.2215 (4°C.). M.P. 198°C. B.P. 245°C. Sol. alcohol, ether, water. Uses—mfr. dyes, intermediates; dyeing and printing fabrics with aniline black. Grades—tech.; C.P.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Rosenthal-Barcow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500

ANILINE SULFATE

$(C_6H_5NH_2)_2H_2SO_4$. White crystalline, amorp. pwr. Sp. gr. 1.337. Sol. water. Slightly sol. alcohol. Insol. ether. Uses—mfr. aniline black; as reagent for detecting wood; printing textiles; in medicine. Grades—C.P.; tech.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

ANISIC ALDEHYDE

†Aromatic Prods Inc, 15 E 30 St, N Y	Murray Hill 4-7875
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Fisher Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-2587
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110

dependable source
anisic aldehyde
More than 151 years of Progress and Experience
D&O DODGE & OLCOTT, INC.
180 Varick Street • New York 14, N. Y.
ESSENTIAL OILS • AROMATIC CHEMICALS
PERFUME BASES • VANILLA • FLAVOR BASES

ANISIC ALDEHYDE (cont'd)

Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200
†Trubek Labs, Inc, E Rutherford, N J	

o-ANISIDINE (Orthomethylaminophenol)

$C_6H_4(OCH)_3(NH_2)$. M.W. 123.08. Yellowish liq. becoming brown on exposure. Sp. gr. 1.098 (15°C.). M.P. 5.2°. B.P. 224°C. Sol. alcohol, dilute mineral acid, ether. Very slightly sol. water. Uses—mfr. azo dyes, azo cochineal, azoeosine, guaiacol. Grades—tech.; 99%.

Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

ANISOLE (Methyl Phenyl Ether)

$CH_3O(C_6H_5)$. M.W. 108. Colorless liquid. B.P. 155° C. F.P. —37.5° C. Uses: intermediate in mfg. of pharmaceuticals, dyestuffs; perfume base; solvent.

†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

ANISOYL CHLORIDE

†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O	Elmhurst 1300

ANNATTO (Arnatto, Annotto, Arnotta, Orleana, Roucou, Bixine, Butter Color)

Vegetable dye containing bixin. Habitat—So. America, West Indies. Natural product. Uses—coloring butter, cheese, oils, food preparations, wood stains, silk and cotton dye. Grades—tech.; Brazilian; French; Spanish.

†Allison, Wm M, & Co, 162 Water St, N Y	Whitehall 3-7421
Dalton-Cooper Inc, 200 W 34 St, N Y	Longacre 4-2910
†Meer Corp, 318 W 46 St, N Y	Judson 6-0900
Parker, Herbert H, 2 Bway, N Y	Whitehall 4-7996
Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Lyon, Julian W, N Y	Steengrafe, D, & Co, Inc, N Y
Ransom, L E, Co, N Y	

ANODES, BRASS

Metal alloys containing 75 to 80% copper and 25 to 20% zinc rolled and annealed at about 500°C are satisfactory as Brass Anodes and corrode in brass electroplating solutions uniformly.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300

ANODES, BRONZE

Generally an alloy of 90% copper, 10% zinc—used in bronze electroplating solutions.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300

ANODES, CADMIUM

Metallic cadmium in the rod or ball form which are fed into a steel, helical-coil, wire container supplying the metal for electroplating operations.

Aceto Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201

ANODES, CADMIUM (cont'd)

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Chemstar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
International Salting Corp, 70 Pine St, N Y	Whitehall 4-7490
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445

Donald Sales & Mfg, Co, Milwaukee, Wisc

ANODES

CADMIUM — BRONZE
COPPER — LEAD
BRASS — TIN
NICKEL — ZINC
ANTIMONIAL-LEAD

Putting Metals into Metals Since 1896

BELMONT
SMELTING & REFINING WORKS, Inc.
322 Belmont Avenue Brooklyn 7, N.Y.
Telephone Dickens 2-4900 Established 1896

ANODES, COPPER

Electrolytic copper metal, cast or rolled is used for copper anodes, to be used in copper electroplating solutions.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894

Wagner, A T, Co, Detroit, Mich

DU PONT
REG. U.S. PAT. OFF.

ANODES and CHEMICALS
for Electroplating

Brass	Copper Cyanide, Zinc Cyanide, Sodium Cyanide
Cadmium	"Cadalyte" Cadmium Plating Salts, "Cadalyte" Maintenance Compound, "Cadalyte" Addition Agents, Cadmium Oxide, Sodium Cyanide
Copper	"Coppralyte" Copper Plating Salts, Copper Cyanide, Sodium Cyanide, Potassium Cyanide, Addition Agents
Lead	Sulfamate Lead Salts, Addition Agents
Silver	"Darsil" Oxidizing Agent, Potassium Cyanide
Tin	Halogen Tin Addition Agent, Sodium Stannate
Zinc	"Zin-O-Lyte" Zinc Plating Salts and Addition Agents, Zinc Cyanide, Zinc Dust, "Durobrite" Addition Agent 309.
Anodes	"Zin-O-Lyte" Zinc Anodes, "Duozinc" Zinc-Mercury Anodes, "Durobrite" Zinc Anodes, Cadmium, Lead, "Pur-O-Tin" Tin, Zinc

E. I. DU PONT DE NEMOURS & CO. (INC.)
ELECTROCHEMICALS DEPARTMENT
WILMINGTON · DELAWARE

ANODES, LEAD

Lead in exceptionally pure form, supplied in a wide variety of shapes for use in electrochemical operations.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
†Eagle Picher Co, Cincinnati, O	Wagner, A T, Co, Detroit, Mich
†Northwest Lead Co, Seattle, Wash	

ANODES, METALS & ALLOYS (misc.)

Gold: Alloys of gold, silver, copper, nickel, zinc, etc., from 10 to 18 karat in white, red and yellow, are suitable for use as gold anodes in gold electroplating solutions. However, pure or 24 karat gold can also be used. Silver: Pure and alloys of silver are used in silver electroplating solutions. Various: Pure and alloys of the following are also used as anodes in various electroplating solutions for high class jewelry. Platinum—Palladium—Tungsten—usually alloyed with gold and silver.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Kruger, L, & Co, Inc, N Y	†Metals Refg Co, Hammond, Ind

ANODES, NICKEL

Extremely pure nickel fashioned in various shapes with a hook or other means of suspension in the electroplating solution. Should possess good grain structure so that it will corrode evenly, feed the solution with a minimum loss of metal; should release a minimum amount of sludge.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894

Wagner, A T, Co, Detroit, Mich

HARSHAW
THE HARSHAW CHEMICAL CO.
Cleveland 6, Ohio
AND PRINCIPAL CITIES

ANODES

Anodes and chemicals for every kind of electroplating . . . . Nickel, Copper, Chromium, Cadmium, Lead, Tin, Zinc, Gold, Silver, etc.

ANODES, SILVER

Comes in bars of pure silver—sometimes called Fine Silver (99.9% fine) made up to various specifications according to customer's needs. Use—plating.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill	Randolph 6-0232
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412

†Handy & Harman, N Y

ANODES, TIN

Straits tin metal in cast or rolled form properly treated used in tin electroplating solutions.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919

ANODES, ZINC

Electrolytic zinc forms best zinc anodes, however, 95 to 97% and higher content zinc can be used.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
†Eagle Picher Co, Cincinnati, O	Wagner, A T, Co, Detroit, Mich
†New Jersey Zinc Sales Co, N Y	

ANTHRACENE (Anthracene Oil, Anthracin Green Oil, Paranaphthalene)

$C_6H_4(CH)_2C_6H_4$. M.W. 178.08. Yellowish with blue fluorescence crystalline powd. Sp. gr. 1.25. M.P. 218°C. B.P. 342°C. Sol. alcohol, ether, benzene, carbon bisulfide, chloroform. Uses—mfr. phenanthrene, carbazol, anthraquinone, intermediates, alizarin and aniline colors, color lights and signal rockets; in calico printing. Grades—commercial (80-90%).

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Coopers Creek Chem Corp, W Conshohocken, Pa — Tar Residuals, Inc, N Y

ANTHRAQUINONE (Diphenyleneketone, Dyhydrodiketoanthracene)

$C_6H_4(CO)_2C_6H_4$. Yellow needles. Sp. gr. 1.419-1.438. M.P. 284.65°C. B.P. 382°C. Only slightly sol. alcohol, ether; more sol. in hot benzene; insol. water. Uses—mfr. derivatives, alizarin, quinasarin and purpurin dyes. Grades—Sublimed; tech.; 30% paste (sold on 100% basis).

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Fallek Products Co Inc, 165 Bway, N Y — Barclay 7-7939
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ANTIMONIAL LEAD (Hard Lead)

An alloy of 15 parts of antimony and 85 parts lead. Uses—of particular value in chemical industry due to its resistance to the action of sulfuric acid; mfr. type metal.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Eagle Picher Co, Cincinnati, O
†Federated Metals Div, N Y
Gitlan, Charles, & Co, Inc, N Y
†Metals Refg Co, Hammond, Ind
†Northwest Lead Co, Seattle, Wash

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ANTIMONY CHLORIDE (Caustic Antimony, Mineral Butter)—see also Antimony Trichloride

$SbCl_3$. Colorless, deliq. crystalline mass. Sp. gr. 3.064 (36°C.). M.P. 73.2°C. B.P. 223.5°C. Sol. water, alcohol, acids, carbon bisulfide, benzene, chloroform, ether, acetate. Uses—mfr. antimony salts, tartar emetic, lakes and dyes; as catalyst in organic synthesis; mordant in calico printing; antimony plating or electro-plating; in bronzing iron; coloring zinc black; in medicine. Grades—C.P.; tech.; cryst.; liq.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200

ANTIMONY FLUORIDE (Antimony Trifluoride)

SbF_3. Grayish to white, hygroscopic cryst. M.P. 292°C. Sp. gr. 4.379. Sol. water. Uses—mfr. porcelains, pottery; in dyeing.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

ANTIMONY LACTATE (Antimonine)

$Sb(C_6H_5O_3)_3$. Yellow, crystalline. Sol. water. Uses—mordant in dyeing and printing textiles. Grades—tech.

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Apex Chem Co, N Y

ANTIMONY, METAL (Antimony Regulus, Stibium)

Sb. Gray, solid metal. Sp. gr. 6.67. M.P. 630°C. B.P. 1440°C. Insol. water, HCl or H_2SO_4. Uses—mfr. antimony salts, fireworks, pigments, dental and metal alloys; coating metals. Grades—tech.; lump, ground, powdered (needle powd.).

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Gitlan, Charles, & Co, Inc, N Y
†Kirk, Morris P, & Son, Inc, Los Angeles, Calif

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ANTIMONY OXIDE (Antimony Trioxide, Anhydrous Antimonous or Stibious Acid, Flowers of Antimony, Antimony Bloom)

Sb_2O_3. M.W. 291.52. White, odorless, tasteless, crystalline powd. Sp. gr. 5.2. Melts at red heat. M.P. 656°C. B.P. 1550°C. Sol. acids. Uses—mfr. antimony salts, enamels for cast iron; paint pigments; tartar emetic; decolorizing and refining glass; mordant in dyeing and printing textiles; producing blacks on cadmium and zinc; in medicine. Grades—tech.; C.P.; U.S.P.; N.F. (97% trioxide).

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
†Metal & Thermit Corp, 100 E 42 St, N Y — Murray Hill 6-5300
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Gitlan, Charles, & Co, Inc, N Y
Porter Warner Industries, Inc, Chattanooga, Tenn
Zimmerman, C L, Co, Cincinnati, O

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ANTIMONY PENTACHLORIDE (Antimony Perchloride)

$SbCl_5$. Yellow liq. M.W. 299.05. Sp. gr. 2.346. M.P. 2.8°C. B.P. 140°C. Sol. hydrochloric acid; decomposes water, alcohol. Uses—chlorinating agent in making intermediates, organic chemicals, synthetic dyestuffs.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151

ANTIMONY POTASSIUM TARTRATE (Tartar Emetic, Tartrated Antimony)

$K(SbO)C_4H_4O_6.\frac{1}{2}H_2O$. White or colorless powd. or cryst. Sp. gr. 2.6. Loses water at 110°C. Sol. water, glycerol. Uses—mordant in dyeing and printing textiles; mordant in dyeing leather; in perfumes and medicine. Grades—U.S.P.; C.P.; tech.; cryst.; powdered.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Fezzy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200

ANTIMONY (POWDER)—see Metals, Powder

ANTIMONY SALT (de Haens Salt)

$(NaF + SbF_3)$ mixture. Also mixture of $SbF_3 + (NH_4)_2SO_4$. White crystalline. Sol. water. Uses—mordant in dyeing and printing textiles. Grades—tech. cryst. (mixture of antimony and sodium fluoride).

Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610

ANTIMONY SULFATE (Antimony Trisulfate, Antimonous Sulfate)

$Sb_2(SO_4)_3$. M.W. 531.70. White, deliq. powd. or lumps. Sp. gr. 3.625. Decomposes in water. Sol. acids.; insol. alcohol. Uses—mfr. explosives and pyrotechnics. Grades—C.P.; tech.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ANTIMONY SULFIDE (Antimony Sulfuret, Antimony Trisulfide, Antimony Black, Crocus of Antimony, Crude Antimony, Antimony Gray, Antimonous Sulfide, Stibnite, Antimony Glance, Antimonite)

Sb_2S_3. Grayish-black powd. In natural state, Kermes Mineral of Red Antimony Sulfide, mostly Sb_2S_3. Sp. gr. 4.642. M.P. 546°C. Sol. ammonium sulfide, potassium sulfide, hydrochloric acid. Uses—mfr. antimony salts, metallic antimony, matches, percussion caps and pyrotechnics; as glass pigment; paint pigment; antique coloring of metals; refining gold. Grades—tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Croton Chem Corp, N Y — Gitlan, Charles, & Co, Inc, N Y

ANTIMONY SULFIDE GOLDEN (Antimonic Sulfide, Antimony Pentasulfide, Antimony Persulfide, Antimony Red, Sulfur Gold)

Sb_2S_5. Orange-yellowish powd. Sol. sodium hydroxide, warm hydrochloric acid; insol. water, alcohol. Uses—mfr. matches, fireworks; used as pigment; coloring of metals; in antimony plating; vulcanizing and coloring rubber.

Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Gen Metallic Oxides Co, Jersey City, N J — Slater-Robbins, Inc, Long Is City, N Y
†Import Chem Co, Jersey City, N J

ANTIMONY TARTRATE

$Sb_2(C_4H_4O_6)_3.6H_2O$. M.W. 795.71. White cryst. powd. Sol. water. Uses—medicinal; in syntheses.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330

ANTIMONY TRIBROMIDE (Antimonious Bromide)

$SbBr_3$. Yellowish, deliq. cryst. Sp. gr. 4.148. M.P. 96.6°C. B.P. 280°C. Sol. carbon disulfide, hydrobromic acid, alcohol, alkalies. Uses—mfr. antimony salts; laboratory reagent; mordant; staining iron and copper articles. Grades—tech.

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005

ANTIMONY TRICHLORIDE (Butter of Antimony, Antimonious Chloride)

$SbCl_3$; Mol. wt. 228.13; Colorless, very deliquescent, translucent crystal mas; fumes slightly in air. Sp. Gr. 3.14; M.P. 73°C.; B.P. 225°C. Sol.—alcohol, benzene, carbon disulfide, chloroform, ether, acetone; Use—Reagent for chloral aromatic hydrocarbons and Vit. A.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
★†Hooker Electrochem Co, 47th & Buffalo Av, Niagara Falls, N Y — 6655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200

ANTIMONY TRI-IODIDE

SbI_3 M.W. 502.52. Red crystals. M.P. 171° C (approx). Sol. alcohol, carbon bisulfide, hydrochloric acid, potassium iodide solutions; insol. chloroform; decomposed by water. Uses: laboratory reagent, medicine.

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005

ANTIPYRINE

$C_{11}H_{12}ON_2$. M.W. 188.21. White powder. M.P. 111.8°C. Sol. in water, alcohol, and ether. Uses—in medicine, as antipyretic and sedative; analytical reagent for determination of nitrous and nitric acid, and for determination of iodine number; mfr. pharmaceuticals. Grade—U.S.P. XI.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
†Dow Chem Co, Midland, Mich — Midland 500
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Bregd St, N Y — Digby 4-4870
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870

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OREGON 5-2505

ANTIPYRINE BENZOATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600

ANTIPYRINE SALICYLATE (Phenazone, Salazolon)

$C_{11}H_{12}N_2OC_7H_6O_3$; white coarse crystalline powder, odorless, tasteless. M.P. 91.5°C.; Mol. wt. 326.16; Sol.—alcohol, chloroform; Uses—medicine.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Dow Chem Co, Midland, Mich — Midland 500
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Fallek Prods Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870
†Arenol Chem Corp, Long Is City, N Y — †Red Star Chem Co, Inc, Long Is City, N Y

ARGININE

†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Mearl Corp, 153 Waverly Pl, N Y — Chelsea 2-3680
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400

ARGOLS (Wine Lees, Crude Cream Tartar, Argil, Arcilla)

$KH(C_4H_4O_6)$. Natural cryst. Sol. water. Uses—mfr. cream of tartar, tartaric acid, tartrates, malt vinegar; as fertilizer; mordant in dyeing textiles. Grades—tech.; red and white.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007

ARGOLS (cont'd)

Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ARGON—see also Rare Gases

A. M.W. 39.94. Colorless, inert gas. Sp. gr. 1.378 (Air = 1). B.P. —189.2°C. M.P. —188.7°C. Uses—filler in electrical display signs instead of neon or other rare gases; instead of nitrogen for filling incandescent bulbs; instead of hydrogen in thermometers.

Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

Air Reduction Sales Co, N Y
†Amer Oxygen Service Corp, Harrison, N J
†Linde Air Prods Co, N Y
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio

ARRHENAL (Di Sodium Methyl Arsenate)

$Na_2CH_3AsO_3 \cdot xH_2O$; mol. wt. 274.01; white crystalline powder; Sol.—water, somewhat in alcohol; Uses—medicine (similar to the cacodylate).

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Retart Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200

ARROWROOT (Balua Tapioca, Maranta)

Starch derived from roots of plants of Maranta genus. Uses—mfr. food preparations, baked products, confectionery, glues, starches, face pwrs.; food substance; size; laundrying; textile size; bleaching linen. Grades—American; St. Vincent; Bermuda.

Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
†Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
†Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500

ARSENIC

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

†Anaconda Copper Mining Co, N Y
†Federated Metals Div, N Y
Rimco Trading Corp, N Y

ARSENIC IODIDE (Arsenious Iodide, Arsenous Iodide, Arsenic Tri-Iodide)

AsI_3. M.W. 455.69. Orange-red scales or powd. Sp. gr. 4.39. M.P. 146°C. B.P. 403°C. Sol. water, alcohol, ether, carbon bisulfide. Uses—laboratory reagent; in poisons; in medicine. Poisonous. Grades—U.S.P.; tech.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005

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ARSENIC, METAL

As_n. Silvery, solid crystalline. Natural and manufactured. Sp. gr. 4.7 to 5.7. M.P. 850°C. under pressure. Volatilizes about 100°C. Sublimes at 616°C. Sol. nitric acid; insol. water. Uses—mfr. poisonous insecticides, rodent poisons, arsenic salts, arsenicals; bronzing agent for glass and opal glass; alloying metal; in medicine. Poisonous. Grades—tech.; 99%.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

ARSENIC RED (Arsenic Disulfide, Red Orpiment, Arsenic Bisulfide, Realgar, Red Arsenic Glass, Red Arsenic Sulfide, Ruby Arsenic)

As_2S_2. Brownish-red amorp. powd. Sp. gr. 3.55. M.P. 307°C.B.P. 565°C. Sol. acids, alkalies. Uses—mfr. pyrotechnic preparations; depilatory agent; shot, paint, and varnish pigment; dyeing textiles and calico printing. Poisonous. Grades—tech.

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Industrial Sales Corp, N Y

ARSENIC SULFIDE YELLOW (Arsenic Trisulfide, Arsenious Sulfide Auripigment, King's Yellow, Orpiment, Sulfoarsenious Anhydride, Arsenic Tersulfide)

As_2S_3. M.W. 246.04. Yellow-orange, solid amorp. Sp. gr. 3.43. M.P. 300°C. B.P. 707°C. Sol. nitric acid, alkalies. Uses—pigment in paints and varnishes; reducing agent in making intermediates, organic chemicals, etc., and in chemical processes; in medicine. Poisonous. Grades—tech.

Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051

ARSENIC TRICHLORIDE, Anhydrous (Arsenous Chloride)

$AsCl_3$. Colorless fuming corrosive oily liq. Sp. gr. approx. 2.163 at 15.5°/15.5°C. Distillation range—3°. B.P. 130.2°C. Sol. hydrochloric acid, alcohol, ether. Uses—mfr. drugs, ceramics, sneeze gas.

★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ARSENIC WHITE (Arsenious Acid, Arsenious Oxide, Arsenous Anhydride, Arsenic Trioxide)

As_2O_3. M.W. 197.86. White, amorp. lumps, cryst. or white powd., odorless. Sp. gr. 3.86. Sublimes at 193°C. Sol. water, alkalies, alkali carbonates, acids, alcohol. Uses—mfr. arsenic acid, arsenicals, aniline dyes, white fire, ceramic enamels, fly poisons, fly paper, wheat smut killers, vegetable decomposition preventatives, boiler compounds, rat poisons, sheep dips, bullets and shot, Scheele's green, Paris green, etc., medicinal soaps, blue, green, pink, brown and other pigments; as clarifying agent and decolorizer glass; hide preservative; insecticide; laboratory reagent; treating hair for felt hats; mordant in dyeing and calico printing; fixative for aniline dyes; determining strength of bleach; for coloring metals; in medicine. Very poisonous. Grades—tech. (99%); offgrade (96-99%); C.P.; U.S.P.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

†Amer Metal Co, Ltd, N Y
†Amer Smelting & Refg Co, N Y
Industrial Sales Corp, N Y
Robins, G S, & Co, St Louis, Mo

ASBESTOS (Amphibole, Amianthus, Earth Flax, Mountain Cork, Serpentine, Stone Flax)

Fibrous, crystalline mineral. Varying physical properties. Sp. gr. 2.2-2.8. Infusible. Resistant to high temperatures and solvents. Uses—mfr. woven fireproof fabrics, theatre curtains, asbestos yarn, cloth, rope, wicks, tinder, wall linings, firemen's clothing, paints, roof shingles, roofing papers and cements, wallplaster and wallboard, stucco plaster, asbestos slate, asbestos paper, coverings for pipes, furnaces, locomotives, acid proof cements, electrical insulating compositions, insulators for motors, generators and other electrical machinery, leather substitutes; packing for joints, boxes, etc.; in steam lines; general filtering medium; rubber filler; filler in moulding compounds; substratum for platinum catalyst in chemical processes; mortar ingredient. Grades—crude; long fibres; short fibres; paper stock; cement stock; shingle stock; floats.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg 5-2151
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
†Colorado Asbestos & Mining Co, Box 65, S Braintree, Mass — Braintree 2-3214
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

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P. O. Box 65 South Braintree, Mass.

ASBESTOS (cont'd)

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Gitlan, Charles, & Co, Inc, N Y
†Keasbey & Mattison Co, Ambler, Pa
Ruberoid Co, N Y
Western Chem & Mfg Co, Los Angeles, Calif
Zimmerman, C L, Co, Cincinnati, O

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BECAUSE of their resistance to the corrosive action of acid fumes, vapors and gases, asbestos fiber and asbestos products have a wide range of applications in the chemical industry.

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- Brake Linings
- Clutch Facings
- Chemstone Panels (for table tops, fume hoods, etc.)
- Roofing and Siding
- Transite Industrial Vent Pipe
- Packings and Gaskets
- Transite Water and Sewer Pipe
- Flexboard
- Flooring

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ASPARAGINE (l-Aminosuccinamic Acid, Althein, Asparamide)

$C_4H_8N_2O_3.H_2O$. M.W. 150. White crystals; optically active. Uses: medicine.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

ASPHALTUM (Asphalt, Bitumen, Judean Pitch, Jew's Pitch, Petroleum Asphalt, Mineral Pitch, Trinidad Pitch, Petrolene)

Brownish-black solid to semi-solid. Varying physical contents. Sp. gr. 1.00-1.18. M.P. 82-38°C. Sol. turpentine, petroleum, carbon disulfide, chloroform, acetone, ether; insol. acids, alkalies, water, alcohol. Uses—mfr. black varnishes, varnishes, paints, enamels, roof cements, transfer and duo-tone inks, asphaltic, roofing and insulating papers, asphaltic stone, mastics, plastics, mineral rubber, chewing gum, lacquers; electrical insulating compositions; lining water tanks; engraving and lithography; waterproofing purposes; coating pipes; cement mixtures; paving streets. Grades—tech.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
†Chaplain & Bibbs, 75 West St, N Y — Bowling Green 9-5636
Chemstar Inc, 40 Exchange Pl, N Y — Hanover 2-0564
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Allied Wax & Oil Prods Corp, N Y
Amer Tar Co, Seattle, Wash
Crowley Tar Prods Co, Inc, N Y
†Gen Metallic Oxides Co, Jersey City, N J
Klemm, Emil, Inc, Salt Lake City, Utah
†Mitchell Rand Mfg Co, N Y
Scheel, Wm H, Inc, Bklyn, N Y

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ASPIDIUM OLEORESIN

†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110

ATROPINE

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Dereume, Raymond, Punxsutawney, Pa

AZOBENZENE

$C_6H_5.N:N.C_6H_5$. M.W. 182. Orange-red rhombic crystals. Sol. ethyl alcohol, ethyl ether, acetic acid, ligroin. Uses: dyestuff intermediate; in rubber accelerators.

†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

BACITRACIN

Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

BALSAM, CANADA (Balsam of Fir, Canada Turpentine)

Yellowish liq. pinelike odor. Derived from Abies, balsamica. Sp. gr. 0.983-0.997. Sol. ether, chloroform, benzene. Uses—mfr. lacquers, special adhesives for lenses, instruments, microscopes; in medicine. Grades—tech., (Abies balsamica).

Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0231
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8832
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Feinberg, B G, N Y
Smith Crude Drug & Spice Corp, N Y

BALSAM, COPAIBA (Jesuit's Balsam, Balsam Capivi, Copaiba Resin)

Light yellow to brownish yellow liq. peculiar odor. Natural, sp. gr. 0.940-0.990. Saponification number 80-100. Acid number 75-100. Sol. alcohol, chloroform, ether, carbon disulfide, benzol, oil of tur-

BALSAM, COPAIBA (cont'd)

pentine. Uses—mfr. varnishes, lacquers, tracing cloth, transparent and tracing paper; brightening oil paintings; in medicine. Grades—U.S.P. South American; tech.; clarified; Para.

†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Luedors, Gee, & Co, 427 Washington St, N Y — Walker 5-4200
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

BALSAM, PERUVIAN (Indian Balsam, China Oil, Black Balsam)

From Toluifera Pereirae (Royle) Boll. Comes from Central America (San Salvador) in forests near Pacific Coast. Composed of 60-66% cinnamein—esters of cinnamic and benzoic acid; about 28% styracine vanillin. Dark brown, viscid liquid, pleasant aromatic odor; warm, bitter taste. Sp. Jr.—1.150-1.170. Insol.—water, olive oil; sol.—alcohol, chloroform, glacial acetic acid. Uses—Medicine, Perfumery, Chocolate Manuf., also, making of odors.

Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
Luedors, Gee, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Lyon, Julian W, N Y

BARBERRY BARK

Bark of Berberis vulgaris. Habitat—Europe, North America. Uses—mfr. dye extracts, berberine, food confections; as preserve; increasing gloss and lustre of leathers; in medicine.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

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BARBITURATES

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Failek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
†Sumner Chem Co, Inc, 52 Wall St, N Y — Digby 4-3880
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

BARIUM ACETATE

$Ba(C_2H_3O_2)_2H_2O$. M.W. 273.42. White, crystalline powd. Sp. gr. 2.19. Decomposes on heating. Sol. water; slightly sol. alcohol. Uses: mfr. acetates, acetone, verdigris; laboratory reagent; mordant in dyeing and printing textiles. Poisonous. Grades—tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959

†Barium & Chems, Inc, Willoughby, O

BARIUM BROMIDE

$BaBr_2.2H_2O$. M.W. 333.2. Colorless crystals, very poisonous. Sp gr 3.6. B.P., decomposes. M.P. 120°C. Sol. water and methyl alcohol. Uses—mfr. of bromides.

†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Dow Chem Co, Midland, Mich — Midland 500
Le Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
†Michigan Chem Corp, St Louis, Michigan — 41

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BARIUM CARBONATE (Witherite)

$BaCO_3$. White powd. Natural and manufactured. (The natural mineral called Witherite contains higher percentage of impurities than precipitated $BaCO_3$ and has a grayish white or yellowish color.) Sol. acids. Uses—mfr. barium salts, dyes, pyrotechnics, optical glass, rat poisons, flat wall paints, cosmetics, beet sugar, tile, terra-cotta, porcelains, pot'eries; laboratory reagent; in steel and metal industry; to prevent scum and efflorescence in bricks, tile, sewer pipe, etc.; filler; paper, linoleum, rubber and soap filler; water purifier. Poisonous. Grades—natural (witherite); precipitated; C.P.; tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
†Chem Prods Corp, Cartersville, Ga — Cartersville 798
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Chicago Copper & Chem Co, 127 & Division Sts, Blue Island, Ill — Blue Island 606
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 3910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919

BARIUM CARBONATE

(Precipitated)

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BARIUM STEARATE
BARIUM SULFIDE
SODIUM SULFIDE

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BARIUM OXIDE
BARIUM PEROXIDE
BARIUM SULFIDE*
BLANC FIXE
BLANC FIXE PULP
STRONTIUM HYDROXIDE
Octahydrate, Tech. Grade Crystal
HYDROGEN PEROXIDE
10°, 20°, 25°*, 35°, 50° Volume

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ST. LOUIS, MO. • LOS ANGELES, CALIF. • NEWARK, CALIF.

BARIUM CARBONATE (cont'd)

†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Barcow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749

†Barium & Chems, Inc, Willoughby, O

BARIUM CHLORATE

$Ba(ClO_3)_2+H_2O$. Colorless prisms of powd. Sp. gr. 3.179. B.P. 414°C. Loses crystallization at 120°C. Sol. water. Uses—mfr. other chlorates, pyrotechnic and explosive compositions; mordant in dyeing and printing textiles. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531

Croton Chem Corp, N Y

BARIUM CHLORIDE

$BaCl_2H_2O$. Colorless, flat cryst. Sp. gr. 3.097. (24°C.). M.P. 960°C. Sol. water; insol. alcohol. Uses—mfr. artificial barium sulfate, barium salts, color lakes, pyrotechnics, printing inks, insecticides, photographic chemicals, rat poisons, pigments, blanc fixe, boiler compounds, varnishes; laboratory reagent; tanning and finishing leather; in brass and metal industry; linoleum and paper filler; purifying sugar; mordant in dyeing and printing textiles; weighting textiles; water softener; in medicine. Grades—tech.; 99% cryst.; powdered; C.P.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstaline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
†Chem Prods Corp, Cartersville, Ga — Cartersville 798
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chicago Copper & Chem Co, 127 & Division Sts, Blue Island, Ill — Blue Island 606
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Barcow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Wellen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

†Barium & Chems, Inc, Willoughby, O — Sergeant, E M, Pulp & Chem Co, Inc, N Y

BARIUM CHROMATE (Lemon Chrome, Ultramarine Yellow, Baryta Yellow, Steinbuhl Yellow, Gelbin)

$BaCrO_4$. Yellow powd. or cryst. Sp. gr. 4.498. Sol. acids. Uses—mfr. safety match compositions; as pigment in water color paints and varnishes; discharge in printing fabrics; coloring ceramics, porcelains and glass. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Barium & Chems, Inc, Willoughby, O

BARIUM CYANIDE

$Ba(CN)_2$. Colorless cryst. M.P. 600°C. Sol. water, alcohol. Uses—metallurgical purposes. Poisonous. Grades—tech.

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

BARIUM FLUORIDE

BaF_2. White powd. Sp gr. 4.828. M.P. 1280°C. Sol. acids, ammonium chloride solution; insol water. Uses—mfr. embalming fluid, enamels for ceramics. Grades—tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp.
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214

†Barium & Chems, Inc, Willoughby, O

BARIUM FLUOSILICATE

$BaSiF_6$. White powd. Very slightly sol. water. Uses—mfr. insecticides. Grades—tech.

Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214

BARIUM HYDROXIDE (Barium Hydrate, Caustic Baryta, Baria Hydride)

$Ba(OH)_2.8H_2O$. M.W. 315.5. White or slightly yellowish cryst. Sp. gr. 2.18. M.P. 78°C. B.P. 108°C. Sol. water, alcohol, ether. Uses—mfr. barium salts, boiler compounds, intermediates, organic chemicals; refining fats, oils and sugar; glass ingredient; water softener. Grades—tech., anhydrous powd. or cryst.; C.P.; U.S.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chicago Copper & Chem Co, 127 & Division Sts, Blue Island, Ill — Blue Island 606
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

†Barium & Chems, Inc, Willoughby, O — Sergeant, E M, Pulp & Chem Co, Inc, N Y

BARIUM HYDRATE • BARIUM ACETATE

BARIUM PEROXIDE
STRONTIUM HYDRATE
STRONTIUM PEROXIDE
STRONTIUM SULPHIDE

MILLMASTER

CHEMICAL CORP.

420 LEXINGTON AVE., NEW YORK 17, N. Y.

Cable Address "Millmaster"

BARIUM IODIDE

$BaI_2.2H_2O$. M.W. 427.23. Colorless, odorless, transparent crystals or white granules. Poisonous. Sol. water; slightly sol. alcohol. Uses: preparation of iodides; in medicine.

†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

BARIUM, METAL

Ba. White soft metal, atomic number 56. Sp. gr. 3.46. M.P. 850°C. B.P. 1140°C. Insol. cold water; slightly sol. hot water with formation of hydroxide; sol. acids, alkalies. Must be kept under oxygen free oil, etc., to avoid oxidation. Sol. compounds are poisonous. Uses—mfr. barium salts, alloys.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Mackay, A D, Inc, N Y

BARIUM NAPHTHENATE

M.W. about 600. 23% metal. Brown resinous solid. Uses: lube oil additive; water-proofing agent.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

†Argus Chem Lab, Inc, Bklyn, N Y

BARIUM NITRATE

— also —

BARIUM OXIDE
BARIUM PEROXIDE
BARIUM HYDRATE
BARIUM CHLORATE
BARIUM CARBONATE

HUMMEL CHEMICAL COMPANY

INCORPORATED

90 West Street — New York 6, N. Y.

Telephone: Rector 2-5687

BARIUM NITRATE (Nitrobarite)

$Ba(NO_3)_2$. M.W. 261.38. Colorless or white cryst. or powd. Sp. gr. 3.244 (25°C.). M.P. 592°C. Decomposes on further heating. Sol. water. Uses—mfr. barium salts, ceramic glazes, pyrotechnics, green fires, military explosives, blasting powd.; laboratory reagent; in medicine. Grades—cryst.; pulverized (97-99%); tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chicago Copper & Chem Co, 127 & Division Sts, Blue Island, Ill — Blue Island 606
Davies Nitrate Co Inc, 118 Liberty St, N Y — Rector 2-6095
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

†Barium & Chems, Inc, Willoughby, O — Croton Chem Corp, N Y

BARIUM OXALATE

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

†Barium & Chems, Inc, Willoughby, O

BARIUM OXIDE (Barium Monoxide, Barium Protoxide, Calcined Baryta)

BaO. White to yellowish white or gray powd. Sp. gr. 4.73-5.46. Decomposes on heating, decomposes water to form $Ba(OH)_2$. Sol. acids, water. Uses—mfr. barium salts, glass ceramics; refining beet sugar. Should be well stoppered. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

†Barium & Chems, Inc, Willoughby, O

BARIUM OXIDE POROUS

BaO. Specially prepared for drying and dehydrating gases, liquids and solids at temperatures to 1000° C. Reacts violently on contact with water. Care should be exercised in handling. Available in lump form or granulated to various mesh sizes.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

†Barium & Chems, Inc, Willoughby, O

BARIUM PERCHLORATE

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

BARIUM PERMANGANATE

$Ba(MnO_4)_2$. M.W. 375.3. Brownish violet crystals; sol. water. Uses—mfr. permanganates, pure permanganic acid; in research. It is more active and less stable than potassium permanganate.

†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600

BARIUM PEROXIDE (Barium Binoxide, Barium Dioxide)

BaO_2. Grayish-white powd. Cryst. have formula $BaO_2.8H_2O$. Sp. gr. 4.958. M.P. 450°C. Sol. dilute alcohol, acids. Decomposes in water. Uses—mfr. barium salts, oxygen, in Brin's Process for hydrogen peroxide, green light, oxygenated water; primer in alumio-thermic welding; general bleaching agent; bleaching textiles mordant in dyeing and printing fabrics. Grades—88-90%; tech.; C.P.

Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

†Barium & Chems, Inc, Willoughby, O

BARIUM RICINOLEATE

$Ba[OOC(CH_2)_7CH{:}CHCH_2CHOH(CH_2)_5CH_3]_2$. M.W. 727. Moderately hard, waxy soap. Uses: compounding of waxes, greases, lubricants, gasket pastes.

†Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653

†Argus Chem Lab, Inc, Bklyn, N Y

BARIUM STEARATE

$BaC_{18}H_{35}O_2$. White crystalline. Insol. alcohol. Uses—waterproofing purposes; packing for pumps for alkalies. Grades—tech.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chicago Copper & Chem Co, 127 & Division Sts, Blue Island, Ill — Blue Island 606
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756

BARIUM STEARATE (cont'd)

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
†Metasap Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Argus Chem Lab, Inc, Bklyn, N Y

BARIUM SULFATE (Barytes, Barite, Heavy Spar, Tiff)—see also Blanc Fixe

$BaSO_4$. White crystalline powd. and natural. Sp. gr. 4.23-4.5. Decomposes at 1580°C. Sol. concentrated sulfuric acid; insol. alcohol, water, dilute acids. Uses—mfr. barium salts, blanc fixe, printing inks, white leathers, iridescent glass, glazier's putty, artificial ivory, ceramics; filler printing inks, leather dressings, linoleum, paints, varnish, textiles, rubber; cements; flux in copper smelting. Grades—bleached; ground; floated; natural barium sulfate.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Fezsy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0905
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Berzow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

†Barium & Chems, Inc, Willoughby, O
Mfrs Mining Co, Seattle, Wash
Osborn, C J, Co, N Y
†Thompson, Weinman & Co, N Y
†Williams, C K, & Co, E St Louis, Ill

BARIUM SULFIDE

CHEMICAL PRODUCTS CORPORATION

CARTERSVILLE, GEORGIA

BARIUM SULFIDE (Barium Monosulfide)

BaS. Grayish-white powd., technical—brownish-black powd. in lumps. Sp. gr. 4.25 (15°C.). Infusible. Decomposes in water. Uses—mfr. barium salts, hydrogen sulfide gas, luminous paints; for producing rich shades of brown coloring on copper; vulcanising rubber; weighting gutta percha; laboratory reagent; as depilatory. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chem Prods Corp, Cartersville, Ga — Cartersville 798
Chicago Copper & Chem Co, 127 & Division Sts, Blue Island, Ill — Blue Island 606
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

†Barium & Chems, Inc, Willoughby, O

BARIUM SULFITE

$BaSO_3$. White powd. Decomposes on heating. Sol. acids. Uses—mfr. paper; in catalytic chemical processes. Grades—tech.

BARIUM SULFITE (cont'd)

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2725
†Barium & Chems, Inc, Willoughby, O

BARIUM SULFOCYANIDE (Barium Sulfocyanate)

$Ba(SCN)_2 + 2H_2O$. White crystalline. Sol. water, alcohol. Must be well stoppered. Uses—mfr. sulfocyanides; dyeing textiles; in photography. Grades—tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

BARIUM THIOSULFATE (Barium Hyposulfite)

$BaS_2O_3 + H_2O$. White crystalline powd. Sp. gr. 3.3. Slightly sol. water. Uses—mfr. luminous paints and varnishes, matches, explosives.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543

BARIUM TITANATE

$BaTiO_3$. M.W. 233.20. Light gray, pink overcast. Sol. conc. sulfuric acid, hydrofluoric acid. Insol. water, alkalies. Use: ingredient in ceramic bodies.

★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

BARIUM ZIRCONIUM SILICATE

★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

BARYTES—see also Barium Sulfate

Natural barium sulfate. Uses—Pigment for paints, filler for paper, manufacture of lithopone and barium chemicals, flux for smelting brass.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 3910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Chem & Pigments Co, Oakland, Calif
†Commercial Minerals Co, San Fran, Calif
Howell, Edwin R, Detroit, Mich
†Industrial Minerals & Chem Co, Berkeley, Calif
Landers-Segal Color Co, Bklyn, N Y
Mfrs Mining Co, Seattle, Wash
Milwhite Co, Houston, Tex
†New Riverside Ochre Co, Cartersville, Ga
Osborn, C J, Co, N Y
Osgood, D H, Co, Detroit, Mich
†Williams, C K, & Co, E St Louis, Ill

BAUXITE (Bauxite)

$Al_2O(OH)_4$. White to deep red amorp. Natural. Sp. gr. 2.4 to 2.5. Insol. water. Decomposed by HCl. Uses—mfr. corundum, artificial emery, abrasive papers and cloths, alum, alum cake, alumina,

POROCEL Hard, highly adsorbent, large-surface-area activated bauxites utilizing either foreign or domestic ores. Supplied in various standard meshes, moisture contents, and in regular, low iron or low silica grades.

Recommended generally as an adsorbent, catalyst and catalyst carrier. Used widely as a lubricating oil and wax percolating medium, vapor phase desulphurization catalyst, aluminum chloride catalyst support and trap, refining medium for sugar liquors, and as an agent for the removal of fluoride contaminants from hydrocarbon streams.

ATTAPULGUS CLAY COMPANY

Sales Agents

210 West Washington Square, Philadelphia 5, Pa.

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BAUXITE (cont'd)

aluminum sulfate, aluminum hydroxide, refractories, aluminates, kiln linings; catalyst; paint and varnish filler; pigments; decolorizing and deodorizing petroleums; clarifying molasses.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Attapulgus Clay Co, 210 W Washington Sq, Phila, Pa	Walnut 2-5720
†Floridin Co, Warren, Pa	329
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

BASES, SOLUBLE OIL

Blend of sulfonated oils in conjunction with mono fatty esters of glycerine. Uses: processing textiles, leather, paper, metal articles.

Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
†Drew, E F, & Co Inc, 15 E 26 St N Y	Murray Hill 6-280
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Hardesty, W C, Co, Inc, 41 E 42 St, N Y	Murray Hill 2-1920
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
†Ninol Labs, 1719 S Clinton St, Chicago, Ill	Chesapeake 3-9625
†Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650

†Penn Refg Co, Cleveland, O

VOLCLAY

HIGH QUALITY COLLOIDAL

BENTONITE

SINCE 1927

All Commercial Forms

Granules to Airfloated Powders

BC Volclay

Impalpable Bentonite Dust—Finest Made

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Panther Creek Mississippi

Bentonite—Non-swelling

●

AMERICAN COLLOID COMPANY

MINES and PLANTS

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SALES OFFICE

Merchandise Mart Plaza • Chicago 54, Ill.

BENTONITE (Colloidal Clay)

Clay-like mineral of varying color and properties. Uses—Foundry molding sand rejuvenator; oil-well drilling mud thickener and suspending agent; for stopping water seepage in dams, reservoirs and mines; clarification of drinking water supplies; purification of sewage and disposal wastes; laundry detergent and ingredient of soap and cleaning and polishing compounds; suspending and adhesive agents in insecticides; bond for refractory and acoustics insulation; ceramic bond; emulsifier for latex, asphalt and other water immiscible substances, wine clarifier; as a thickening paste-forming and suspending ingredient in pharmaceuticals and cosmetics; petroleum, animal, and vegetable oil refining in natural and activated forms.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill	Superior 7-5637
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Doggett, Stanley, Inc, 75 Varick St, N Y	Walker 5-1051
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365

TRUE WYOMING BENTONITE

(Colloidal Clay)

CRUSHED — GRANULATED — PULVERIZED — AIR FLOATED

For Suspensions - Emulsions - Bonds - Detergents - Horticultural Sprays and Dusts - Water Impedent and Many Other Uses Where High Jelling and Emulsifying Are Desired.

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EUROPEAN CONCESSIONAIRES — The District Chemical Company, 19 New Oxford St., London W C 1.

BENTONITE (cont'd)

Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3695
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
United Clay Mines Corp, 103 Oakland St, Trenton, N J	Trenton 5-6356
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y	Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wyodak Chem Div, Federal F'dry Supply Co, 4610 E 71 St, Cleveland, O	Michigan 8125

Asbury Graphite Mills, Inc, Asbury, N J	Industrial Minerals & Chem Co, Berkeley, Calif
Black Hills Chem Co, Rapid City, S Dakota	Klemm, Emil, Inc, Salt Lake City, Utah
Bonewitz Chems, Inc, Burlington, Iowa	Miller, Carl P, & Co, Inc, Seattle, Wash
Chem Sales Corp, Buffalo, N Y	Superior Prods Co, Somerville, Mass
†Commercial Minerals Co, San Fran, Calif	Warren-Douglas Chem Co, Inc, Omaha, Neb
Hase, Harry, Inc, Chicago, Ill	

BENZAL CHLORIDE (Benzylidene Chloride)

$C_6H_5CHCl_2$. M.W. 161.03. Colorless, oily liquid. B.P. 207° C. Sp. gr. 1.51 at 15° C. Insol. in water, but sol. in organic solvents. Uses—mfr. of dyestuff intermediates and irritant gases for chemical warfare.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y	6655
†Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333

BENZALDEHYDE (Artificial Essential Oil of Almonds, Benzoic Aldehyde, Benzoyl Hydride, Benezen Carbonal, Benzene Methylal)

$C_6H_5CH:O$. M.W. 106.05. Colorless liq., fragrant odor. Sp. gr. 1.045 (25°C.). M.P. —56.0°C. B.P. 179.5°C. Sol. alcohol, ether. Uses—mfr. intermediates, synthetic pharmaceuticals, benzoic acid, cinnamic aldehyde, triphenylmethane dyes, malachite green, acridine dyes, flavoring compounds, baked products, toilet preparations, photographical chemicals; substitute for natural oil of bitter almonds; soap ingredient; in medicine. Grades—N.F.; tech.; free from chlorine.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg 5-2151
Benedix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712

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†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Lo Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870
Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

Panray Corp, N Y

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Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

BENZENE HEXACHLORIDE (1,2,3,4,5,6, Hexachlorocyclohexane)

$C_6H_6Cl_6$. M.W. 290.87. White to gray-white crushed solid and powder. Grades-technical, 11% gamma isomer—minimum. Uses: insecticides.

†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chapman Chem Co, Derwen Bldg, Memphis, Tenn — 37-8316
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
†Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

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BENZENE HEXACHLORIDE (cont'd)

De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
†Dow Chem Co, Midland, Mich — Midland 500
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Ethyl Corp, 100 Park Av, N Y — Oregon 9-2000
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Kolker Chem Wks Inc, 80 Lister Av, Newark, N J — Market 2-3458
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
Michigan Chem Corp, St. Louis, Michigan — 41
Muf-fler Chem Co, Inc, 258 Bway, N Y — Digby 9-4733
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Powell, John, & Co Inc, 1 Park Av, N Y — Murray Hill 5-1770
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Colorado Fuel & Iron Corp, Denver, Colo
Niagara Chem Div, Food Machy & Chem Corp, Middleport, N Y
Steele, Ben P, Co, N Y

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BENZENE HEXAHYDROXY

†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

BENZENESULFONAMIDE

$C_6H_5SO_2NH_2$. M.W. 157.12. White crystals. M.P. 150°C. min. Uses: plasticizer for certain resins; intermediate in mfg. of germicides, pharmaceuticals, dyestuffs, resins.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

BENZENESULFONYL CHLORIDE (Benzene Sulfonic Chloride)

$C_6H_5SO_2Cl$. M.W. 176.57. Amber colored liquid. Uses: prep. of benzenesulfonic acid esters and amides; intermediate in prep. of dyestuffs, pharmaceuticals, resins.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

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BENZENESULFONYL CHLORIDE (cont'd)

Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

BENZHYDROL

Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

†Trubek Labs, Inc, E Rutherford, N J

BENZIDINE (Benzidine Base, Paradiaminodiphenyl, Bianiline)

$(C_6H_4)_2(NH_2)_2$. M.W. 184.11. White or reddish-gray cryst. or powd. M.P. 128.7°C. Sol. alcohol, ether; slightly sol. water. Uses—mfr. intermediates, organic chemicals, synth. drugs and perfumes, diazo colors and benzidines; as blood detector; stain in microscopy. Grades—tech. paste; powd., 80-85% (sold on basis of 100%).

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Carwin Co, Stiles Lane, North Haven, Conn — New Haven 2-2161
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

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Pure Benzidine Sulphate — o-Tolidine HCl

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BENZIDINE HYDROCHLORIDE (Benzidine)

$C_{12}H_{12}N_2 \cdot 2HCl$. M.W. 257.04. White crystals. Sol. alcohol, water. Uses: quantative determination of sulfates; reagent for metals; blood detection.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
†Carwin Co, Stiles Lane, North Haven, Conn — New Haven 2-2161
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-8121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
McKesson & Robbins, Inc. Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

Murbas Trading Co, N Y

BENZIDINE SULFATE (Paradiaminodiphenyl Sulfate)

$C_{12}H_{12}N_2H_2SO_4$. White crystalline powd. Sol. alcohol, ether; sparingly sol. water. Uses—mfr. intermediates, synth. drugs, perfumes and dyes. Grades—tech.; paste.

†Carwin Co, Stiles Lane, North Haven, Conn — New Haven 2-2161
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

BENZINE (Petroleum Ether, Benzoline, Petroleum Naphtha, Canadol, Benzinum Purification)

Mixture of hydrocarbons, principally CH. Colorless liq. Sp. gr. tech. 0.730-0.750 (15°C.). B.P. tech. 80°-130°C. Sol. alcohol, benzene, chloroform, ether; insol. water. Uses—mfr. detergent soaps, printing and lithographic inks, rubber cements, paint and varnish removers; extracting perfumes; general solvent; solvent for oils, fats, greases, inks, rubber; extracting fats and oils; diluent in varnishes, paints and lacquers; linoleum and oil-cloth waterproofing agent; degreasing and cleaning textiles; as fuel and illuminant; degreasing machines and hides; cleaning gloves, etc. Grades—C.P.; U.S.P.; tech.; pure.

†Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3630
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9351
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131

†Union Oil Co of Calif, Los Angeles, Calif

BENZOCAINE—see ETHYL p-AMINOBENZOATE

BENZOIC ANHYDRIDE

$(C_6H_5CO)_2O$. M.W. 226.08. White crys. powder with faint odor. M.P. 43°C. Sol. alcohol, ether, toluene. Uses—as benzoylating agent in manufacture of dyes and pharmaceuticals.

†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

BENZOIN

$C_6H_5COCHOHC_6H_5$. M.W. 212. Uses: preservative.

†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Lucidol Div, Novadel-Agene Corp, 1740 Military Rd, Buffalo, N Y — Victoria 1740
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530

BENZOINOXIME, Alpha (Cupron)

White crystals. M.P. 153-155°C. Uses—reagent.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

BENZOL (Benzene, Coal Naphtha, Phenyl Hydride, Cyclohexatriene, Phene)

C_6H_6. M.W. 78.05. Colorless liq. Sp. gr. 0.879 (20°C.). M.P. 5.4°C. Flash point 15°C. B.P. 79.6°C. Sol. alcohol, ether; insol. water. Color, minimum, 21 saybolt. Uses—mfr. phenol, nitrobenzene, synth. drugs and perfumes, phenacetin, antipyrin, salicylic acid, saccharin, intermediates, organic chemicals, indigo dyes, picric acid, shoe polishes, blackings, spreading compounds, splicing solutions, dry cleaning preparations, paint removers, airplane dopes, varnishes, lacquers, photographic developers, rubber cements, textile soaps; cleansing textiles; preserving textile sizes; as solvent for and extracting waxes, resins, fats and oils; solvent ink, celluloid and rubber; enriching gas; in cements; degreasing glue stock; solvent in making artificial leather; as disinfectant; engraving and lithography; knock inhibitor in gasoline; in medicine. Grades—pure; 90% (distilling below 100°C.); crude; straw color; C.P.; U.S.P.

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Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3630
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550

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Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Elbert & Co, Inc, 2 Bway, N Y	Digby 9-2670
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland	
†Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Nitrogen Prods, Inc, Benzol Div, 926 Harrison Av, Kearny, N J	Bergen 4-5478
Nitrogen Prods Inc, 450 7 Av, N Y	Bryant 9-1045
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Rosenthal-Borcow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Seidow & Emquist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J	Rutherford 2-7420
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
†Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600
†Velsicol Corp, 330 E Grand Av, Chicago, Ill	Delaware 7-7383

Chem By-Prods Co, Chicago, Ill
Coal Chems, Inc, Chicago, Ill
Colorado Fuel & Iron Corp, Denver, Colo
Commerce Petroleum Co, Chicago, Ill
Elk, B R, Co, Inc, Garfield, N J
†Inland Steel Co, Chicago, Ill
†Interlake Iron Corp, Cleveland, O
†Milwaukee Solvay Coke Co, Milwaukee, Wisc
Phipps & Bird, Inc, Richmond, Va
Senn, George, Inc, Phila, Pa

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Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†Fisher Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-2587
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

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ETHYLENE DICHLORIDE - MONOCHLOROBENZENE
NITROBENZENE - NAPHTHALENE - NITRIC ACID
PARADICHLORBENZENE - PHTHALIC ANHYDRIDE
POTASSIUM FERROCYANIDE - PYRIDINE - PYRIDINE
BASES - TOLUOL - XYLOL - UREA

N.V. Koninklijke Nederlandsche Zoutindustrie, Hengelo (O)
CHLORINE - GLAUBER'S SALT - COPPEROXYCHLORIDE
HYDROCHLORIC ACID - SODIUMCHLORIDE

N.V. Maatschappij tot Exploitatie van Kooksovengassen M.E.K.O.G., IJmuiden
AMMONIA - NITRIC ACID

Koninklijke Zwavelzuurfabrieken v/h Ketjen N.V., Amsterdam
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PARATOLUENESULPHONCHLORIDE
DYE STUFFS INTERMEDIATES - PLASTICIZERS
POTASSIUM PERMANGANATE - SACCHARIN
SULPHUR DIOXIDE - SULPHURIC ACID - TINCHLORIDE

N.V. Algemene Industrieële Mineraal- en Ertsmaatschappij A.I.M.E., Amsterdam
MANGANESE DIOXIDE

C.T. Stork & Co. Chemische Industrie N.V. Hengelo (O)
MONOCHLOROACETIC ACID and -SODIUM SALT

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Customers in 45 countries think it advantageous to deal with N.V.C.P.

Nederlandsch Verkoopkantoor voor Chemische Producten N.V.
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CABLE ADDRESS: CHEMICALS

BENZONITRILE

[Now available in
COMMERCIAL QUANTITIES
Write for Technical Bulletin]

SOCONY-VACUUM OIL COMPANY, INC.
Chemical Division, 26 Broadway, New York 4, N. Y.

BENZONITRILE (Phenyl Cyanide, Cyanbenzene, Benzenecarbon Nitrile)

C_6H_5CN. M.P. —131°C. Colorless or slightly yellowish, inflam. liq., odor oil of almonds. Sp. gr. 1.00. B.P. 190°C. Uses—in organic synthesis.

Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600

BENZOPHENONE (Diphenyl Ketone, Benzoylbenzene)

$C_6H_5CO.C_6H_5$. Colorless prisms. Sp. gr. 1.098 (50°C.). M.P. 48°C. B.P. 306°C. Sol. alcohol, ether Uses—mfr. intermediates, synthetic drugs, perfumes and dyes; in medicine. Grades—tech.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-3570
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

BENZOQUINOLINE

†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

BENZOTRIAZOLE

White to off-white fluffy powder. Uses: synthesis, analytical reagent for copper, anti-fogging agent in photography.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655

†Stanetal Corp, Linden, N J — Wholesale Supply Co, Los Angeles, C

BENZOTRICHLORIDE (Phenylchloroform)

$C_6H_5C.Cl_3$. M.P. —4.8°C. Colorless to light yellow liq. having a pungent odor. Sp. gr. 1.375-1.385 at 15½°/15½°C. Uses—organic syntheses.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333

BENZOTRIFLUORIDE (a-Trifluorotoluene, Phenyl Fluoroform)

$C_6H_5CF_3$. M.W. 146. Water-white liquid; aromatic odor. Completely miscible with most solvents. Uses: intermediates, transformer and dielectric fluids, medicinals, insecticides, other organic synthetics.

★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

BENZOYL CHLORIDE (Benzocarbonyl Chloride, Chlorobenzaldehyde)

C_6H_5COCl. M.W. 140.5 Colorless prisms. Sp. gr. 1.211. M.P. —0.8°C. B.P. 198°C Sol. ether, carbon disulfide. Decomposes water, alcohol. Uses—mfr. intermediates, synthetic drugs and perfumes, condensation products with indigo. Grades—tech.; pure; redistilled; C.P.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Dow Chem Co, Midland, Mich — Midland 500
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333

BENZOYL PEROXIDE (Benzoyl Superoxide, Lucidol)

$C_{14}H_{10}O_4$. White, crystalline powd. M.P. 105°C. Sol. benzene, alcohol. Slightly sol. ether. Uses—mfr. organic chemicals; as bleaching agent for flour, fats, oils and waxes; in medicine. Grades—50% paste.

LUCIDOL* BENZOYL PEROXIDE

ALPEROX* C
(Technical Lauroyl Peroxide)

LUPERSOL* DDM
(60% methyl ethyl ketone peroxide in dimethyl phthalate)

t-BUTYL HYDROPEROXIDE

DI-t-BUTYL PEROXIDE

SPECIAL ORGANIC PEROXIDES

*REGISTERED TRADEMARK

TRADE MARK

LUCIDOL DIVISION
NOVADEL-AGENE CORPORATION
BUFFALO 5, NEW YORK

BENZOYL PEROXIDE (cont'd)

†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Lucidol Div, Novadel-Agene Corp, 1740 Military Rd, Buffalo, N Y — Victoria 1740
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Sterwin Chems, Inc, 1450 Bway, N Y
†Peters Chem Co, N Y

BENZYL ACETATE

$C_9H_{10}O_2$. M.W. 150.08. Colorless liq., flowery odor. Sp. gr. 1.057 (16°C.). B.P. 213.5°C. Sol. alcohol, ether; very slightly sol. water. Uses—mfr. fruit essences, perfumes, toilet preparations, cosmetics, fine toilet soaps, cellulose acetate, nitrate; as solvent in airplane dopes. Grades—tech.; pure.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Gane, & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Kay-Frirs Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200

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STOCKS IN METROPOLITAN NEW YORK • CHICAGO • HOUSTON • LOS ANGELES

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McKESSON & ROBBINS, INC.
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★ Offices in All Principal Cities ★

BENZYL ACETATE (cont'd)

†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

Gunning & Gunning, Inc, N Y

BENZYL BENZOATE

$C_6H_5COO.C_6H_5CH_2$. M. W. 212.09. Colorless liq., pleasant odor. Sp. gr. 1.083-1.12 (25°C.). M.P. 18.3°C. B.P. 324°C. Sol. alcohol, ether. Uses—fixative for flavors; solvent for dopes and artificial musk; neutral fixative; substitute for camphor in Celluloid and plastic pyroxylin compounds; flavor in confectioery and chewing gums; in medicine. Grades—tech.; pure. (medicinal).

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Aromatic Prods Inc, 15 E 30 St, N Y	Murray Hill 4-7875
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-5141
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
European Chem Co Inc, 366 Bway, N Y	Beekman 3-6246
Fisher Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-2587
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O	Elmhurst 1300
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

Gunning & Gunning, Inc, N Y — †Montrose Chem Co, Newark, N J

BENZYL BENZOATE, U.S.P.

Essentially colorless liquid having pleasant odor; crystallizing point, 18.3° C. min.; specific gravity at 25°/25°C., 1.116-1.120; chlorine content, 0.04% max.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
1700 South Second Street
St. Louis 4, Mo.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY...WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

BENZYL BUTYRATE

Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

†Felton Chem Co, Inc, Bklyn, N Y

BENZYL CHLORIDE (Chlorotoluene, Chlorotoluol)

$C_6H_5CH_2Cl$. M.W. 126.51. Colorless liq., unpleasant odor. Sp. gr. 1.103 (18°C.). M.P. —39°C. B.P. 179.4°C. Sol. alcohol, chloroform, ether; insol. water. Uses—mfr. intermediates, organic chemicals, benzaldehyde; benzoic acid, esters, salts, perfume esters, synthetic drugs, basic dyes, photographic developers, artificial resins; in medicine. Grades—tech. 95%; redistilled; C.P.

Advance Solvents & Chems Corp, 245 5 Av, N Y	Murray Hill 9-2620
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251

BENZYL CHLORIDE

Standard Forms: Liquid, anhydrous; liquid stabilized with added 10% Na_2CO_3 solution.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY...WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

BENZYL CHLORIDE (cont'd)

Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y	6655
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333

BENZYL CINNAMATE

$C_6H_5O_2.C_7H_7$; mol. wt. 238.11; white crystals; aromatic odor. M. P. 39°; Sol. in alcohol; insol. in water; Use—artificial flavors, in perfumes.

†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

†Felton Chem Co, Inc, Bklyn, N Y

BENZYL CYANIDE (Benzylnitrile, Phenyl Acetonitrile, Alpha-Tolunitrile)

$C_6H_5CH_2CN$. M.W. 117.14. Colorless to amber liquid; aromatic odor. B.P. 234°C. Uses: intermediate in mfg. of fine organic chemicals.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000

Hardy, Charles, Inc, N Y — †Trubek Labs, Inc, E Rutherford, N J

BENZYL FORMATE

†Aromatic Prods Inc, 15 E 30 St, N Y	Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

†Felton Chem Co, Inc, Bklyn, N Y

BENZYL PARA HYDROXY BENZOATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Goldschmidt Chem Corp, 153 Waverly Pl, N Y	Chelsea 3-4792
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000

BENZYL PHTHALIMIDE

†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600

BENZYL PROPIONATE

$C_6H_5CH_2OOC.C_2H_5$. M.W. 164. Colorless liquid. Uses: jasmine compounds.

†Aromatic Prods Inc, 15 E 30 St, N Y	Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100

BENZYL PROPIONATE (cont'd)

†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

†Felton Chem Co, Inc, Bklyn, N Y

BENZYL SALICYLATE

HO. C_6H_4. CO_2CH_2. C_6H_5; mol. wt. 228.10; colorless, thick liquid, slight, pleasant odor. Sp. Gr. 1.178^{20}. B.P. 208°C, slightly soluble in water; miscible with alcohol or ether. Use—as fixer in perfumery; in "sun screen."

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700

BENZYL SUCCINATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805

BENZYL SULFIDE

†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030

BENZYL THIOCYANATE

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

BENZYLTRIMETHYLAMMONIUM CHLORIDE

$C_6H_5CH_2(CH_3)_3NCl$. M.W. 196. Sol. water. Uses: catalyst in resin manufacture.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

BERYL (Beryllium Aluminum Silicate)

A mineral. $3BeO.Al_2O_3.6SiO_2$; hex. grn.; sp. gr. 2.63-2.91; hardens 7.5-8.0; M.P. 1410°C. ±100. Uses—mfr. beryllium and beryllium salts, gem stones (emerald).

International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490

Murbas Trading Co, N Y

BERYLLIUM (Metal)

Be. Non-corrodible, grayish-black metal in hexagonal cryst. Related to magnesium group. Sp. gr. 1.85 (20°C.). M.P. 1350°C. Sol. acids, alkalies. Uses—mfr. alloys to impart strength and hardness, particularly aluminum alloys; mfr. beryllium salts.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

†Brush Beryllium Co, Cleveland, O — Mackay, A D, Inc, N Y
†Clifton Prods, Inc, Painesville, O

BERYLLIUM CHLORIDE (Glucinum Chloride)

$BeCl_2$. M.W. 79.93. White crystals, very deliquescent. Sp. Gr. 1.899 @ 25°C. M.P. 440°C. B.P. 520°C. Sol. water, alcohol, benzene, ether.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

†Clifton Prods, Inc, Painesville, O — Mackay, A D, Inc, N Y

BERYLLIUM FLUORIDE (Glucinum Fluoride)

BeF_2 M.W. 47.02 Sp. Gr. 1.986 M.P. 800°C.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

†Brush Beryllium Co, Cleveland, O

BERYLLIUM HYDROXIDE

$Be(OH)_2$. M.W. 43.04. White amorphous powder. Sol. acids. Uses: beryllium compounds; bonding material and addition agent.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

†Clifton Prods, Inc, Painesville, O

BERYLLIUM NITRATE (Glucinum Nitrate)

$Be(NO_3)_2$. $3H_2O$. M.W. 187.08. White to slightly yellowish. Very deliquescent. M.P. 60°C. Decomposes 100°C. Sol. water, alcohol.

†Brush Beryllium Co, Cleveland, O — †Clifton Prods, Inc, Painesville, O

BERYLLIUM OXIDE (Glucinum Oxide)

BeO. M.W. 25.02. Amorphous white powder. Sp. gr. 3.025. Infusible. Insol. water. M.P. 2570°C. Sold either fluffy or preshrunk. Uses—mfr. other beryllium salts. Grades—com.

BERYLLIUM OXIDE (cont'd)

Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

†Brush Beryllium Co, Cleveland, O — Mackay, A D, Inc, N Y
†Clifton Prods, Inc, Painesville, O

BERYLLIUM SULFATE

$BeSO_4$. M.W. 105.08. Small, well-defined, colorless, tetragonal crystals. Uses: binding material in beryllium oxide refractories; in ceramics.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

†Brush Beryllium Co, Cleveland, O — †Clifton Prods, Inc, Painesville, O

BETA Compounds—Listed under first word following beta

BETAINE HYDROCHLORIDE (Trimethylglycine Hydrochloride)

$C_5H_{11}O_2N.HCl$. M.W. 153.59.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

BILIRUBIN (Biliphaein, Bilifulvin, Cholepyrrin, Hematoidin)

Orange-red powder. Insol. water; sol. benzene, chloroform, carbon bisulfide, acids, alkalies very soluble in alcohol, ether. Uses: organic reagent in analytical chemistry, medicine.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8852
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

BISMUTH (Metal)

Bi. Grayish-white brittle metal with reddish tinge. Natural and manufactured. Sp. gr. 9.78 (20°C.). M.P. 271°C. B.P. 1420°C. Sol. aqua regia; insol. water. Uses—mfr. bismuth salts, porcelain and stoneware pigments, bismuth pharmaceuticals, alloys, bearing metals, metal for dental work; tempering baths for steel; silvering amalgams. Grades—C.P.; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

†Federated Metals Div, N Y — †U S Smelting Refg & Mining Co, N Y

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BISMUTH ALBUMINATE

(Bismuthose). Pale gray or white powder. Insoluble in water. Use—Medicine (astringent or antiseptic).

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330

BISMUTH CARBONATE

(Bismuth subcarbonate; Bismuth carbonate, basic;) $(BiO)_2CO_3)_2$. H_2O; white, odorless powder; Sp. Gr. 6.86; Insol.—in water or alcohol; Sol.—in mineral acids, in concentrated acetic acid. Uses—medicine; face powder.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

BISMUTH CHLORIDE (Bismuth Trichloride, Bismuthous Chloride)

$BiCl_3$. M.W. 315.37. White, crystalline, deliq. powd. Sp. gr. 4.75. M.P. 230-2°C. B.P. 447°C. Sol. acids; insol. alcohol. Decomposes in water. Uses—mfr. bismuth salts. Grades—C.P.; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120

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BISMUTH CHLORIDE (cont'd)

†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

BISMUTH FLUORIDE (Bismuth Trifluoride)

BiF_3. M.W. 266. Dense white powder.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

BISMUTH HYDROXIDE (Bismuth Hydrate)

$Bi(OH)_3$. M.W. 260. White to yellowish-white amorphous powder. Insol. water; sol. acids.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

BISMUTH IODIDE

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

BISMUTH IODOSUBGALLATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543

BISMUTH NITRATE (Bismuth Trinitrate, Bismuth Ternitrate, Carnot's Reagent)

$Bi(NO_3)_3.5H_2O$. M.W. 485.10. Colorless solid crystalline. Sp. gr. 2.83. B.P. decomposes at 80 to 80°C. Sol. alcohol, acetone. Uses—mfr. bismuth salts, luminous paints and enamels, bismuth pharmaceuticals; for bismuth lustre on tin. Grades—tech.; U.S.P.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0-251
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

BISMUTH OXYCHLORIDE (Bismuthyl Chloride, Bismuth Subchloride, Pearl White, Cosmetic Bismuth, Basic Bismuth Chloride, Blanc d' Espagne, Blanc de Perle)

BiOCl. White powd. Sp. gr. 7.717. Melts at red heat. Sol. acids. Insol. alcohol, water. Uses—mfr. face pwrs., toilet articles, artificial pearls; as paint pigment; in medicine. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Fay-Cole & Co, Inc, Boston, Mass

BISMUTH POWDER

Bi 99.90% furnished in 200-300 mesh.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

BISMUTH SALICYLATE

$Bi(C_7H_5O_3)_3$. M.W. 620.12. White powd. M.P. 135°C. Decomposes. Uses—medicine.

Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

BISMUTH SUBACETATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

BISMUTH SUBCARBONATE (Bismuthyl Carbonate)

$Bi_2O_2CO_3.\frac{1}{2}H_2O$. White or yellowish powd. Odor, none; tasteless. Sp. gr. 6.86. Contains not less than 90% Bi_2O_3. Insol. water, alcohol; soluble mineral acids. Uses—in medicine; cosmetics; face powders. Grades tech.; U.S.P.; C.P.; X-Ray.

Amer Reland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870

BISMUTH SUBGALLATE

$C_6H_2(OH)_2.COOBi(OH)_2$. M.W. 412.09. Odorl., tastel., bright yellow powd. Sol. dil. alkalies, in hot mineral acids with decomp. Insol. water, alcohol, chloroform, ether. Uses—medicine.

Amer Reland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870

BISMUTH SUBIODIDE

BiOI. Red powder. Uses—medicinal as antiseptic.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870

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BISMUTH SUBNITRATE (Bismuthyl Nitrate, Bismuth White, Flake White, Spanish White, Magistery of Bismuth, Basic Bismuth Nitrate)

$BiONO_3H_2O$. White powd. Sp. gr. 4.928. Decomposes at 260°C. Sol. acids. Uses—mfr. bismuth salts, cosmetics, face paints, perfumery, face pwrs., toilet articles, porcelain enamels; for bismuth lustre on metals; in fluxes; in medicine. Grades—tech., not less than 80% Bi_2O_3; C.P.; U.S.P.

Amer Reland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870

BISMUTHS

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- BISMUTH SUBCARBONATE U. S. P.
- BISMUTH SUBGALLATE N. F.
- BISMUTH OXIDE ANHYDROUS
- BISMUTH OXYCHLORIDE
- BISMUTH SUBSALICYLATE U. S. P.
- BISMUTH SALICYLATE

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BISMUTH SUBSALICYLATE (Oxysalicylate)

$C_6H_4(OH)COOBi(OH)_2$. M.W. 380.09. White microcryst., odorl., tastel. Sol. acid & alkalies with decomp. Insol. water, alcohol, ether. Uses—medicine.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chems Pure Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

BISMUTH SULFATE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445

BISMUTH TRIBROMOPHENATE (Tribromophenol-Bismuth)

Approx., BiOH. $(C_6H_2Br_3O)_3Bi_2O_3$. M.W. 1351.5. Yellow, almost odorless, tasteless powder. Insol. water, organic solvents. Uses: in medicine as intestinal antiseptic.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

BISMUTH TRIOXIDE (Bismuth Oxide, Bismuth Yellow, Flowers of Bismuth)

Bi_2O_3. Yellow powd. Sp. gr. 8.8. M.P. 820°C. Sol. acids. Uses—mfr. bismuth salts, red glass, ceramic colors; in medicine. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

BLANC FIXE (Precipitated Barium Sulfate, Synthetic Barytes, Synthetic Heavy Spar, Permanent White, Terra Ponderosa—see also Barium Sulfate)

$BaSO_4$. White powd. Uses—mfr. barium salts, special glass, lithographic and printing inks, cements, glazed and wall papers, paper hangings; as substratum for color lakes; in X-ray work; filler for white leather, linoleum, paints and varnish, paper, rubber and in making cloth; pigment and white lead substitute; substratum in making photographic paper. Grades—tech.; C.P.; U.S.P.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fezandie & Sperrle, Inc, 205 Fulton St, N Y — Cortlandt 7-1460
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

BLANC FIXE (cont'd)

United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Jensen & McClelland, Chicago, Ill
Osborn, C J, Co, N Y
Uhlich, Paul, & Co, Inc, N Y

BLEACHING POWDER (Loosely Called Calcium Hypochlorite, Chloride of Lime, Chlorinated Lime, Calcium Oxychloride, Calx Chlorinata, Bleach, Hypochlorite of Lime, Sodium Chlorohypochlorite)—see also Calcium Hypochlorite—see also Bleaches Laundry, Chemical Specialties Section.

$CaCl(ClO).4H_2O$. White powd. chlorine odor. Decomposes on melting. Decomposed by water, alcohol. Uses—mfr. organic chemicals, intermediates, chloroform, deodorized germicides; as disinfectant; miscellaneous bleaching agent; bleaching cotton, linen, pulp, cotton for smokeless powd., fats and oils; purifying acetylene and water; tanning leather; sewage disinfectant; dry cleaning. Grades—35-37% active chlorine; tech.; U.S.P.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Oil & Supply Co, 172 Freilnghuysen Av, Newark, N J — Bigelow 3-0700
Onalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa — McKeesport 4-4278
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Starkweather, J U, Co, Inc, 243 Allens Av, Providence, R I — Williams 1-0812
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Black Hills Chem Co, Rapid City, S Dakota
Central O-B Prods Co, Inc, Buffalo, N Y
Mfrs Chem Co, N Y
Minnesota Chem Co, St Paul, Minn
Sergeant, E M, Pulp & Chem Co, Inc, N Y
Steele, Ben P, Co, N Y
Ulrich Chem Co, Indianapolis, Ind

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BLOOD, DRIED

Reddish-brown, solid amorp. Natural. Uses—mfr. adhesives, animal charcoal, buttons, paints; as feed-stuff for hogs and chickens, fertilizer and ingredient of fertilizing compositions; clarifying sugar; water purifier; sewage precipitating agent; in medicine. Grades—15% ammonia; ground; unground.

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585

BLOOD DRIED (cont'd)

†Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903

Chem Advance Corp, Phila, Pa — Spiegel & Peiffer, N Y
Jackle, Frank R, N Y — Wessel-Duval Co, N Y
Jett, Joseph C, Norfolk, Va — Wilson Brokerage, N Y
McIver, Alex M, & Son, Charleston, S C

BONE ASH

Ash resulting from incineration of bones. Composed chiefly of calcium phosphate. Uses—making cupels used in assaying, for cleaning and polishing preparations, ceramics, fertilizers.

†Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919

Chem Advance Corp, Phila, Pa — Wilson Brokerage, N Y

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Bone Oil • Bone Meal

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BONE BLACK (Animal Charcoal)—see also Carbon Activated

Black, solid amorp. Sp. gr. 2.7. Uses—mfr. blackings and polishes; decolorizing agent and filtering medium; cementation reagent; absorptive medium in gas masks; paint and varnish pigment; clarifying shellac; decolorizing and deodorizing paraffin and sugar; filtering, decolorizing and deodorizing water. Grades—tech.; various as to uses.

†Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
†Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas — CA2371
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Allan, Homer G, St. Louis, Mo — †Con Chem Industries, Inc, San Fran, Calif
†Baugh Chem Co, Baltimore, Md — Uhlich, Paul, & Co, Inc, N Y

BONE BOTANICALS

Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

BONE, GROUND (and Meal)

White, solid amorp. Natural. Insol. Sp. gr. 1.7—2.0. Uses—mfr. fertilizers. Grades—raw (4½, 5, 50%); steamed (3, 50%); flour.

†Darling & Co, 4204 S Ashland Av, Chicago, Ill — Yards 7-3000
†Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903

†Con Chem Industries, Inc, San Fran, Calif — Lundt & Co, N Y
Deresume, Raymond, Punxsutawney, Pa — Snow & Co, Los Angeles, Calif
Hardy, M W, & Co, Inc, N Y — Wessel-Duval Co, N Y
Huber, L W, Co, N Y — Winther, S A, & Co, Inc, San Fran, Calif
Jackle, Frank R, N Y — Woodward & Dickerson, Inc, Phila, Pa

BORAX—see Sodium Borate

BORNEOL (Borneo Camphor, Bornyl Alcohol, Baras Camphor, Malayan Camphor, Sumatra Camphor, Dihydroxy-camphene, Camphanol)

$C_{10}H_{17}OH$. M.W. 154.14. White, solid, amorp. and crystalline, camphor-like odor. Sp. gr. 1.011 (15°C.). M.P. 208.6°C. B.P. 213.5°C. Sol. alcohol, ether; very slightly sol. water. Uses—mfr. perfumes, pharmaceuticals, intermediates, celluloid, organic chemicals, synth. camphor, borneolesters; in medicine. Grades—tech.; pure.

BORNEOL (cont'd)

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110

BORON AMORPHOUS

B; At. Wt. 10.82; at No. 5; vol. 3; soft, brown powder; ignites in air. Sp. Gr. 2.45. M.P. 2300°C. Unaffected by water, chlorine or bromine at ordinary temp. Slightly sol. in water when freshly prepared and not strongly ignited. Use as positive pole in galvanic elements, thermometers.

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959

BORON CARBIDE

B_4C. M.W. 76.92. Hardest synthetic material yet made. Unaffected by strongest acids and alkalies, has comparative strength of 260,000 lbs. per sq. in. Uses—cutting hard alloys; mfr. dies, wear-resistant bearings, abrasives, etc.

†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

BORON FLUORIDE ETHERATE (Boron Fluoride-diethyl Ether Complex)

$BF_3{\cdot}(C_2H_5)_2O$. M.W. 141.90. Straw color to tan liquid. Uses: catalyst in polymerization, esterification, and alkylation reactions.

40 Rector St, N Y — Whitehall 4-2220
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220

BORON NITRIDE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

BORON TRICHLORIDE

BCl_3. M.W. 117. Colorless, fuming liquid. Uses: catalyst; refining agent for aluminum, zinc and copper alloys; refrigerant in compression refrigerating machines.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200

BORON TRIFLUORIDE

BF_3. M.W. 67.82. Colorless gas. Uses—catalyst.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio

BRASS POWDERS

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†New Jersey Zinc Sales Co, N Y

BRAZILWOOD EXTRACT

Extract made from Brazilwood. Uses—dyeing textiles and leather. Grades—tech.

†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

BROMINE

Br_2. Reddish-brown, fuming liq. Sp. gr. 3.1883 (0°C.). M.P. —7.3°C. B.P. 58.7°C. Sol. water, alcohol, ether, potassium, bromide, alkalies, carbon disulfide. Uses—mfr. bromides, hydrobromic acid, Prussian Blue, poison gases, tetraethyl gasoline dyes, pharma-

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BROMINE (cont'd)

ceuticals; as battery depolariser; disinfectant of rooms and buildings; oxidizing and brominating agent in making inorganic and organic compounds; extracting gold; in medicine. Grades—C.P.; U.S.P.; tech.

†Amer Potash & Chem Corp, 122 E 42 St, N Y	Murray Hill 5-7142
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Dow Chem Co, Midland, Mich	Midland 500
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
La Sue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Michigan Chem Corp, St Louis, Michigan	41
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920

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p-BROMOANILINE

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y Glenwood 1877

BROMOBENZENE (Bromobenzol, Monobrombenzene, Phenyl Bromide)

C_6H_5Br. Colorless liq. Sp. gr. 1.49528 (20°C.). M.P. —30.6°C. B.P. 156.15°C. Insol. water; sol. alcohol, ether. Uses—mfr. intermediate chemicals, benzoic acid. Grades—tech.

†Dow Chem Co, Midland, Mich	Midland 500
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

BROMOCHLOR PHENOL BLUE (Dibromodichlorphenolsulfonphthalein)

$C_{19}H_{10}Br_2Cl_2O_5S$. M.W. 581. White to pink crystalline powder. Use: pH indicator - pH range 3.0 (yellow) to 4.6 (blue).

†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa Allegheny 4-8832

BROMOCRESOL GREEN (Tetrabrom-m-cresol-sulfonphthalein, Brom Cresol Blue)

$C_{21}H_{14}Br_4O_5S$. M.W. 698. White to buff colored crystalline powder. Slightly sol. water; sol. alcohol and alkali. Use: pH indicator - pH range 4.0 (yellow) to 5.6 (blue).

BROMOCRESOL GREEN (cont'd)

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y Glenwood 1877
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa Allegheny 4-8832

BROMOCRESOL PURPLE (Dibrom-ortho-cresol-sulfonphthalein)

$C_{21}H_{16}Br_2O_5S$. M.W. 540.2. White to pink crystalline powder. Insol. water, sol. alcohol and alkali. Use: pH indicator - pH range 5.2 (yellow) to 6.8 (purple).

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y Glenwood 1877
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa Allegheny 4-8832

BROMODICHLORO METHANE

†Dow Chem Co, Midland, Mich Midland 500

BROMOFORM (Tribromomethane)

$CHBr_3$. M.W. 252.76; Colorless liq. or hex. crystals M.P. 6-7°C. B.P. 149.5°C.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
†Dow Chem Co, Midland, Mich	Midland 500
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Michigan Chem Corp, St Louis, Michigan	41
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

alpha-BROMOISOVALERYLUREA

$(CH_3)_2CHCHBrCONHCONH_2$. M.W. 223. White almost tasteless crystalline powder. M.P. 147-149° C. Uses: pharmaceutical.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Desmo Chem Corp, 565 S Av, N Y	Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†Sumner Chem Co, Inc, 52 Wall St, N Y	Digby 4-3880
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

BROMOPHENOL BLUE (Tetrabromphenolsulfonphthalein)

$C_{19}H_{10}Br_4O_5S$. M.W. 669. Pale orange or reddish crystalline powder. Use: pH indicator - pH range 3.0 (yellow) to 4.6 (blue).

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y Glenwood 1877
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa Allegheny 4-8832

2-BROMO-4-PHENYLPHENOL

$C_6H_5.C_6H_3BrOH$. M.W. 249.0. Light-colored, cryst. solid with faint characteristic odor. B.P. (18 mm., with decomposition) 195-200°C. Sol sodium hydroxide solutions, most organic solvents, insol. water. M.P. above 87.0°C. Uses—as a germicide.

†Dow Chem Co, Midland, Mich Midland 500

2-BROMOPYRIDINE

†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†Jorala Prods Co, 894 Whittier St, Bronx, N Y	Dayton 3-1137
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

N-BROMOSUCCINIMIDE

$(CH_2{\cdot}C{:}O)_2N{\cdot}Br$. M.W. 178. White to pale buff, fine crystalline powder; faint odor of bromine. Uses: brominating agent.

†Arapahoe Chems Inc, 2800 Pearl St, Boulder, Colo	613
†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C	2-7419
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005

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2800 PEARL STREET • BOULDER, COLORADO

N-BROMOSUCCINIMIDE (cont'd)

†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5939
Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727
Bingham & Co, Inc, N Y

2-BROMOTHIOPHENE

†Jerala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137
†Michigan Chem Corp, St Louis, Michigan — 43

BROMOTHYMOL BLUE (Dibromthymolsulfonphthalein)

$C_{27}H_{28}Br_2O_5S$. M.W. 624.3. Pink colored crystalline powder. Use: pH indicator - pH range 6.0 (yellow) to 7.6 (blue).

DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-9852
Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

BROMOTRICHLOROMETHANE

†Dow Chem Co, Midland, Mich — Midland 500
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125
†Michigan Chem Corp, St Louis, Michigan — 43

BRONZE POWDERS

Mixture copper, zinc, tin, antimony. Varied colors. Uses—mfr. aluminum bronze, flashlight pwrs.; as chemical catalyst; pigment in lacquers and enamels; bronzing agent; coating paper; dusting pwr. in printing. Grades—various as to color and fineness. Cont.—cases.

Amer Firstaline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Argus Chem Lab, Inc, Bklyn, N Y — Washington Color & Chem Co, Seattle, Wash
Crescent Bronze Powder Co, Chicago, Ill
†Magna Mfg Co, Inc, Hastall, N J — Zimmerman, C L, Co, Cincinnati, O
†New Jersey Zinc Sales Co, N Y

BRUCINE ALKALOID (Dimethoxy strychnine)

$C_{23}H_{26}N_2O_4$. White cryst. M.P. 105°C.; hydrated 178°C. Sol. alcohol, chloroform; slightly sol. water. Uses—denaturing oils and alcohol; intermediate in organic syntheses.

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120

BRUCINE SULFATE

$(C_{23}H_{26}N_2O_4)_2H_2SO_4 + 7H_2O$. Small white cryst. Sol. alcohol, water. Uses—denaturing oils and alcohol.

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400

BUTADIENE (Bivinyl, Erythrene, Pyrrolylene, Vinyl-Ethylene, Divinyl)

$CH_2{:}CH{-}CH{:}CH_2$. M.W. 54. Colorless, easily liquified gas. Uses: essential raw material in mfg. of synthetic rubber.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Dow Chem Co, Midland, Mich — Midland 500
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655

†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio

BUTANE (Tetrane, Methylethyl Methane)

C_4H_{10}. M.W. 58.08. Colorless g. Density 2.046. F.P. —135°C. B.P. 1°C. Insol. water; slightly sol. alcohol. Uses—as an illuminating gas; enricher of illuminating gas; low boiling solvent; as refrigerant.

†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251

BUTANE (cont'd)

†McCarthy Chem Co, Shell Bldg, Houston, Tex — Pr 7204
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio — †Union Oil Co of Calif, Los Angeles, Calif

BUTANOL—see Alcohol Butyl

BUTENE-1

(Butene; Butylene, alpha; Ethylethylene) C_4H_8: mol. wt. 56.06; colorless gas; B. P. 50°C; M. P.—130°C; Insol.—water; Sol.—alcohol; †

†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

BUTENE-2

$CH_3CHCHCH_3$ mol. wt. 56.06; col. gas; insol.—water; Sol.—alcohol.

†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

BUTOXYETHYLDIGLYCOL CARBONATE

†Pittsburgh Plate Glass Co, Columbia Chem Div, 3 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960

BUTOXY ETHYL STEARATE

Argus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420

BUTTON-LAC (Garnet Lac)

Colony Import & Export Corp, 11 E 44 St, N Y — Murray Hill 2-3160

BUTYL ACETATE

Butyl Acetate... the most important medium-boiling solvent for nitrocellulose... is supplied with a minimum purity of 90%. The butanol present increases its solvent power. Butyl Acetate is supplied in 55-gallon containers, compartments, and straight tank cars.

For list of other products see our catalog ad.

Carbide and Carbon Chemicals Division
Union Carbide and Carbon Corporation
30 East 42nd Street UCC New York 17, N. Y.
Offices in Principal Cities

BUTYL ACETATE, Normal

$CH_3COOC_4H_9$. M.W. 116.09. Colorless liq. Purity 88 to 92% ester by weight. Sp. gr. 0.882 (20°C.). B. P. 110-145°C. M. P. —76.8°C. Weight per gal., 7.290 lbs. (20°C.). Miscible gasoline (60° Be. and common organic solvents. Uses—mfr. nitrocellulose lacquers, artificial, patent and enameled leathers, coated paper, perfumes, photographic films, pyroxylin plastics, safety glass, synth. flavors; solvent camphor, mineral and vegetable oils, pitch, natural resins, synth. resins, gum rubber.

BUTANOL
and Butyl Acetate
Indispensable solvents for smooth-flowing, blush-resistant nitrocellulose lacquers
COMMERCIAL SOLVENTS Corporation
17 EAST 42nd STREET, NEW YORK, N. Y.

BUTYL ACETATE

ALL GRADES and other

Chemicals, Solvents and Coal Tar Products

Republic Chemical Corp.
94 Beekman Street, New York 7
Cable Address: Jaynivrad

BUTYL ACETATE, Normal (cont'd)

Aceto Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Shawinigan Prods Corp, 350 5 Av, N Y	Chickering 4-1243
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
★†Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
McClellan, G C, & Co, Boston, Mass	†Publicker Industries, Inc, Phila, Pa
Phillips & Martin Co, Chicago, Ill	Senn, George, Inc, Phila, Pa

BUTYL ACETATE, SECONDARY (Acetic Isobutylester)

$CH_3COOCH(CH_3)(C_2H_5)$. M.W. 116.09. Sp. gr. 0.875 (15°C.). B.P. 112.2°C. Sol. alcohol. Uses—solvent; flavoring. Grades—tech.

†Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760

Stark, J W, Co, Detroit, Mich

SECONDARY BUTYL ACETATE

Clear, colorless liquid belonging to medium boiling group of solvents. Dissolves many synthetic and natural resins and asphalt. Miscible with vegetable oils. Used in lacquers, films and plastic products.

ENJAY COMPANY, INC.
15 West 51st St.
New York 19, N. Y.
Write or phone for further information.

ENJAY

BUTYL ACETOACETATE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

n-butyl acetate

• Eastman n-butyl acetate is a completely synthetic material whose preparation is subject to rigid control resulting in an exceptionally pure product. It is one of the most commonly used medium-evaporating solvents used in the lacquer trade and also is employed as an extracting solvent in the artificial leather, flavoring, perfume and other industries. Available in drums, compartmented and full tank cars.

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Co.)
KINGSPORT, TENNESSEE

EASTMAN INDUSTRIAL CHEMICALS

Sales Reps in principal cities—see ad in Catalog Section.

THE
BAKER CASTOR OIL COMPANY

Established 1857

PROCESSED VEGETABLE OILS
RICINOLEATE ESTERS

120 Broadway, New York 5, New York

Chicago, Illinois — Los Angeles, California

BUTYL ACETYL RICINOLEATE

Yellow, oily liq., mild odor. Misc. most common organic solvents. Sp. gr. 0.94 (20/20°C.). Sap. N. 235. Saybolt test visc. 123sec. (100° F.). Practically insol. water. Dist. range 220-235°C. (98-5 mm. mereury). Acidity approx. 5% calculated as ricinoleic acid. F.P. 110°C. Uses—plasticizer, emulsifier, lubricator, detergent. Grades—tech.

†Baker Caster Oil Co, 119 Bway, N Y — Digby 9-0500

n-BUTYL ACID PHOSPHATE

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

BUTYL ACID PYROPHOSPHATE

†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

n-BUTYL AMINE

$CH_3CH_2CH_2CH_2NH_2$. Sp. gr. at 20/20°C., 0.7385; B. P. 77.01°C.; completely miscible with water; lb. per gal. at 20°C., 6.15. Has a characteristic ammoniacal odor, and with fatty acids forms soaps which show unusually high degree of solubility in hydrocarbons. It combines readily with acids, aldehydes, olefin oxides, chlorhydrins, and organic sulfur compounds, and is useful intermediate in making emulsifying agents, dyestuffs, rubber chemicals, flotation agents, corrosion inhibitors, and insecticides.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

BUTYL-p-AMINOBENZOATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
Greef, R W. & Co, Inc. 10 Rockefeller Plaza, N Y — Circle 6-9680
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

†Richmond Chem Corp, Staten Is, N Y

BUTYL BENZENE, secondary

$C_6H_5C_4H_9$. M.W. 134.60. Clear liquid. B.P. 172.5°C. Uses: in nitration, oxidation, halogenation, hydrogenation, sulfonation, and dehydrogenation; in synthesis of dyestuffs and fine chemicals.

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

BUTYL BENZENE (Tertiary)

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

BUTYL BENZOATE

$C_6H_5C_7H_5O_2$. M.W. 178.11. Colorless liq. Sp. gr. 1.002 (15°C.). B.P. 250.3°C. Sol. alcohol, ether; insol. water. Uses—mfr. synth. perfumes; solvent; plasticizer. Grades—tech.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

†Felton Chem Co, Inc, Bklyn, N Y

BUTYL BENZYL SEBACATE

†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270

BUTYL BORATE (Tributyl Borate)

$(C_4H_9)_3BO_3$. M.W. 230.16. Hydrolyzes with water; sol. organic liquids. B.P. 232.4° C., M.P. —70° C. Uses: drying agent; flameproofing; mfg. specialty lacquers, inks.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

BUTYL BROMIDE (Iso)

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Dow Chem Co, Midland, Mich — Midland 500
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Le Bue, Philip J, Co, 250 Park Av, N Y — Murray Hill 9-0060
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

BUTYL BROMIDE, Secondary (2-Bromobutane)

$CH_3CH_2CHBrCH_3$. M.W. 137. Clear, odorless liquid. Uses: in organic syntheses, particularly as source of sec-butyl radical.

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Dow Chem Co, Midland, Mich — Midland 500
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
La Bue, Philip J, Co, 250 Park Av, N Y — Murray Hill 9-0060
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

BUTYL BROMIDE (Tertiary)

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Dow Chem Co, Midland, Mich — Midland 500
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
La Bue, Philip J, Co, 250 Park Av, N Y — Murray Hill 9-0060
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

n-BUTYL BROMIDE (Bromobutane)

$CH_3(CH_2)_3Br$. Colorless liq. Sp. gr. 1.275. B.P. 101.6°C. Insol. water. Sol. alcohol, ether. Uses: mfg. organic chemicals, pharmaceuticals. Grades—pure, tech.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Dow Chem Co, Midland, Mich — Midland 500
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

n-BUTYL BROMIDE

ACID TRIFLUOROACETIC
BUTYL CHLORIDE, TERTIARY
DODECYL BROMIDE, NORMAL
HEXACHLOROPROPENE
HEXAMETHYLENE DIBROMIDE
PENTAMETHYLENE DIBROMIDE

CONSOLIDATED MIDLAND CORPORATION
KATONAH, NEW YORK, U. S. A.

n-BUTYL BROMIDE (cont'd)

La Pine, Arthur S. & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
Le Bue, Philip J, Co, 250 Park Av, N Y — Murray Hill 9-0060
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Michigan Chem Corp, St Louis, Michigan — 41
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

BUTYL BUTYRATE (Isobutyl Isobutyrate)

$(CH_3)_2CH.COO.CH_2.CH(CH_3)_2$. Colorless, neutral liq. Sp. gr. 0.858 (15°C.). B.P. 156.9°C. Sol. alcohol, ether; insol. water. Uses: solvent for nitrocellulose lacquers. Grades—tech.

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

†Felton Chem Co, Inc, Bklyn, N Y

p-Tertiary-BUTYL CATECHOL

†Dow Chem Co, Midland, Mich — Midland 500

BUTYL "CELLOSOLVE"* STEARATE

*(*Reg. Trade-Mark—Carbide & Carbon Chemicals Corp.)*

$C_{17}H_{35}COOC_2H_4OC_4H_9$. M.W. 384. Sol. alcohols, ketones, esters, aromatic and aliphatic hydrocarbons, fats, oils and waxes; insol. water. Uses: plasticizer for vinyl resins, cellulose esters and synthetic rubber; lubricant for textiles and leather.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420

BUTYL CITRATE

(N-Butyl Citrate, Tributyl Citrate) $(C_4H_9)_3C_6H_5O_7$; mol. wt. 360.26; colorless or pale yellow, odorless liquid. Sp. Gr. 1.048^{25}_{25}; B. P. 233° @ mm; M. P. 20°; Insol.—water; miscible with most organic liquids. Use—plasticizer and solvent for nitrocellulose lacquers in polishes, inks and similar preparations.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

n-BUTYL DIETHANOLAMINE

Water-white to pale straw-colored liquid of slightly ammoniacal odor. Sp. Gr. at 20° C., 0.97; dist. range (Engler), 272-315° C.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp,

BUTYL ESTERS OF FATTY ACIDS

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Napco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

Tertiary-BUTYL HYDROPEROXIDE

†Lucidol Div, Novadel-Agene Corp, 2740 Military Rd, Buffalo, N Y — Victoria 1740

BUTYL p-HYDROXYBENZOATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
Greef, R W, & Co, Inc. 10 Rockefeller Plaza, N Y — Circle 6-9680
Hexagon Labs, Inc, 3536 Pearlroe Av, Bronx, N Y — Fairbanks 4-7550
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

BUTYL IODIDE, Secondary

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

n-BUTYL IODIDE (Iodobutane)

$CH_3(CH_2)_3I$. Colorless liq. Sp. gr. 1.617. B.P. 127°C. Insol. water. Sol. alcohol, ether. Uses—mfg. organic chemicals, pharmaceuticals. Grades—pure, tech.

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C 2-7419
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y Glenwood 1877
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn Norwalk 6-9005
†Paragon Div, Matheson Co, Inc, E Rutherford, N J Rutherford 2-9500
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y Dobbs Ferry 3-1818

BUTYL LACTATE, Normal

$CH_3CHOHCOOC_4H_9$. M.W. 146.11. Slightly colored liq. Sp. gr. 0.968 (20°C.). M.P. —43°C. B.P. 160-90°C. Weight per gal., 8.15 (68°F.). Sol. slightly in water; sol. gasoline (60° Baumé). Uses—mfr. perfumes, lacquers, enamels, printing inks, intermediates; as solvent. Grades—tech.

Argus, W W, Inc, 220 Bway, N Y Cortlandt 7-5728
†Commercial Solvents Corp, 17 E 42 St, N Y Vanderbilt 6-1600
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I Hopkins 1-0770

BUTYL LITHIUM

Hummel Chem Co, Inc, 90 West St, N Y Rector 2-5687
†Algo Chem Co, Detroit, Mich

BUTYL MERCAPTAN, tertiary

C_4H_9SH. M.W. 90.80. Boiling range 62-76°C. Uses: odorant, chemical intermediate.

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla 6600

Phillips 66 CHEMICALS
TERTIARY MERCAPTANS
Butyl • Hexyl • Octyl • Tetradecyl
Amyl • Heptyl • Dodecyl • Hexadecyl
PHILLIPS PETROLEUM COMPANY
Chemical Products Department
BARTLESVILLE, OKLAHOMA

n-BUTYL METHACRYLATE

$CH_2:C(CH_3)\text{-}CO_2C_4H_9$. M.W. 142. Uses: potting compound, cement for optical glass, polymerization.

†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del Wilmington 4-5121
†Rohm & Haas Co, Washington Sq, Phila, Pa Lombard 3-9860

BUTYL MYRISTATE

$C_{13}H_{27}COOC_4H_9$. M.W. 284.5. Uses: plasticizer, lubricant for textiles, paper stencils, cosmetic preparations.

Argus, W W, Inc, 220 Bway, N Y Cortlandt 7-5728
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I Gaspee 1-2935
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa Devonshire 8-0800
†Mathe Chem Co, 169 Millbank St, Lodi, N J Prescott 9-4981
Roble, Milton F, 8 Braintree, Mass

BUTYL NAPHTHALENE SULFONATE

†Alrose Chem Co, 180 Mill St, Cranston, Providence, R I Williams 1-3000

BUTYL OLEATE

$CH_3(CH_2)_7CH{=}CH(CH_2)_7COOC_4H_9$. M.W. 388.5 Uses: plasticizer for ethyl cellulose, cellulose nitrate, etc.; solvent for ester gum, useful where low temperature flexibility is concerned.

Argus, W W, Inc, 220 Bway, N Y Cortlandt 7-5728
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I Gaspee 1-2935
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J Harrison 6-6200
†Ohio-Apex Inc, Nitro, W Va Nitro 152

BUTYL OXALATE—see Dibutyl Oxalate

Tertiary-BUTYL PERBENZOATE

†Lucidol Div, Novadel-Agene Corp, 1740 Military Rd, Buffalo, N Y Victoria 1740

Di-Tert-BUTYL PEROXIDE

†Lucidol Div, Novadel-Agene Corp, 1740 Military Rd, Buffalo, N Y Victoria 1740
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif Exbrook 2-5400

p-tert-Butylphenol
DOW
THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products
Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.
See listing ad for other products

BUTYL PHENOL,-p-tert

$C_{10}H_{14}O$. M. W. 150. White col., aromatic odor. F. P. 97-98°C. Insol. water. Uses—mfr. synthetic resins for paints and varnishes; mfr. certain resinous products.

†Dow Chem Co, Midland, Mich Midland 500

BUTYL PHOSPHATE

$(C_4H_9)_3PO_4$. Colorless, liq., mild pleasant odor. Miscible lacquer solvent. Sp. gr. 0.968. B.P. 284-340°C. F.P. 170°C. Uses—mfr. nitrocellulose plastics having low temperature flexibility; insulating impregnator for paper. Grades—tech.

†Commercial Solvents Corp, 17 E 42 St, N Y Vanderbilt 6-1600
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo Main 4000
†Oldbury Electro Chem Co, 19 Rector St, N Y Digby 4-1668
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill Harrison 7-3541

BUTYL PROPIONATE

$C_4H_9CO_2C_4H_9$. M.W. 130.11. Colorless liq. Sp. gr. 0.875 (20°C.). Flash point 105°F. B.P. 146.4°C. Insol. water. Miscible with alcohol, ether. Shipping weight per gal. 7.28 lbs. Uses—mfr. lacquers, synth. perfumes, etc., solvent for nitrocellulose. Grades—tech.

†Verona Chem Co, 26 Verona Av, Newark, N J Humboldt 3-3200
†Felton Chem Co, Inc, Bklyn, N Y

BUTYL RICINOLEATE, Normal

$C_5H_{11}CHOH\text{—}CH_2CH{=}CH(CH_2)_7COOC_4H_9$. M.W. 354. Clear, light straw-colored liquid; low viscosity. Uses: lubricant additive; plasticizer.

Argus, W W, Inc, 220 Bway, N Y Cortlandt 7-5728
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa Devonshire 8-0800
†Decoy Prods Co, Cambridge, Mass

BUTYL STEARATE, NORMAL

Argus, W W, Inc, 220 Bway, N Y Cortlandt 7-5728
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I Gaspee 1-2935
†Commercial Solvents Corp, 17 E 42 St, N Y Vanderbilt 6-1600
Griffin Chem Co, 1000 16 St, San Fran, Calif Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O Jefferson 5175
†Hardesty Chem Co, Inc, 41 E 42 St, N Y Murray Hill 2-6270
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa Devonshire 8-0800
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y Murray Hill 7-3600
Mathe Chem Co, 169 Millbank St, Lodi, N J Prescott 9-4981
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J Harrison 6-6200
†Ohio-Apex Inc, Nitro, W Va Nitro 152
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I Hopkins 1-0770
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J Hoboken 3-1200
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J Rutherford 2-7420
†Witco Chem Co, 295 Madison Av, N Y Murray Hill 5-6020

BUTYLUREA

$NH_2CONHC_4H_9$. M.W. 116. Insol. methanol. Color, white. Uses: surface coatings and adhesives.

Robert & Co, Inc, 60 Broad St, N Y Digby 4-4870
†Sharples Chems Inc, Phila, Pa Kingsley 5-2802

2-3-BUTYLENE GLYCOL (Butanediol)

$CH_3\text{-}CHOH\text{-}CHOH\text{-}CH_3$. M.W. 90.08. Nearly colorless sol. or liq., hygroscopic. Sp. gr. 1.000 (25°C.). B.P. 184°C. M.P. 24°C.-27°C. Miscible with water in all proportions. Refract. index 1.438 (20°C.). Uses—solvent for dyes, has good penetration into wood and textiles, is resistant against alkali, non-resistant against most mineral acids. Forms nitrates with nitric. Forms resins with phthalic anhydride. Grades—90% 2-3 butylene glycol.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y Murray Hill 7-8000

3-BUTYN-1-OL (beta-Ethynyl Ethanol)

$HC{\equiv}CCH_2CH_2OH$. M.W. 70.09. Colorless liquid; characteristic odor. Uses: organic syntheses, pharmaceuticals, plastics.

†Farchan Research Labs, 609 E 127 St, Cleveland, O Glenville 1-8749

3-BUTYN-2-OL (Methyl Ethynyl Carbinol)

$HC{\equiv}C{\cdot}C(OH)CH_3$. M.W. 70.1. Colorless liquid; characteristic odor. Uses: organic synthesis, pharmaceuticals, plastics.

†Farchan Research Labs, 609 E 127 St, Cleveland, O — Glenville 1-8749

n-BUTYRALDEHYDE

C_4H_8O. M.W. 72.10. Colorless liquid. B.P. 75.7°C. Slightly sol. in water; very sol. in organic solvents.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

BUTYRIC ANHYDRIDE

$(C_3H_7CO)_2O$. Liq. boiling at 198.2°C. Sp. gr. is .9976 at 20°/20°C. Uses—organic synthesis.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

BUTYRYL CHLORIDE (Ise)

$(CH_3)_2CH.CO.Cl$. M.W. 106.51. Colorless liq. Sp. gr. at 4 nm, 1.017. M.P. —90°C. B.P. 92°C. Sol. ether. Uses—Organic synthesis.

★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

CACODYLATES

Uses—medicinal, pharmaceutical.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Arenol Chem Corp, Long Is City, N Y

CADMIUM (Metal)

Cd. Silver-white crystalline bars or grayish-white powd. Sp. gr. 8.642 (17°C.). M.P. 320.9°C. B.P. 767°C. Sol. acids, ammonium nitrate. Uses—mfr. cadmium salts, cadmium vapor lamps, smoke bombs, small arms ammunition, white pigment, alloys, electrical instruments, incandescent light filaments, electroplating cadmium, aluminum solder; substitute for tin in solders; dental amalgams; ceramic coatings; deoxidiser in metallurgy; coloring glass; nickel plating; process engraving; lithography. Grades—tech.; pure sticks, slabs, anodes, etc.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

†Amer Zinc Sales Co, Columbus, O
†Anaconda Copper Mining Co, N Y
†Federated Metals Dir, N Y
Industrial Sales Corp, N Y
Metallurg, Inc, N Y
Miller, Carl F, & Co, Inc, Seattle, Wash
†New Jersey Zinc Sales Co, N Y
Northwest Lead Co, Seattle, Wash
†U S Smelting Refg & Mining Co, N Y

CADMIUM

STICKS BALLS ANODES POWDER
INGOTS MOSSY DISCS WIRE
SLABS SHEET SOLDERS ALLOYS

ALSO REFINERS OF CADMIUM SCRAP

Putting Mettle into Metals Since 1896

BELMONT
SMELTING & REFINING WORKS, Inc.
322 Belmont Avenue Brooklyn 7, N.Y.
Telephone—Dickens 2-4900 Established 1898

CADMIUM ACETATE

$Cd(CH_3COO)_2 + 2H_2O$. Colorless cryst, slight odor acetic acid. Sp. gr. 2.01. Sol. alcohol, ether. Uses—mfr. acetates; assistant dyeing and printing textiles; dentistry; laboratory reagent.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

CADMIUM BROMIDE

$CdBr_2$. White to yellowish efflorescent needle cryst. Sp. gr. 5.192 (dry). M.P. 568°C. B.P. 963°C. Sol. water. Slightly sol. alcohol, ether. Uses—in photographic emulsions; process engraving; lithography. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Dow Chem Co, Midland, Mich — Midland 500
Lo Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

CADMIUM CARBONATE

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

CADMIUM CHLORIDE

$CdCl_2$ and $CdCl_2.2\frac{1}{2}H_2O$. White amorp. mass or white cryst. Sp. gr. 3.32 (cryst.) and 4.047. M.P. 568°C. B.P. 861 to 954°C. Sol. water, alcohol. Uses—mfr. cadmium salts; dyeing and printing textiles; cadmium plating; photographical and laboratory reagent. Grades—tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

CADMIUM COLORS

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Fezandie & Sperle, Inc, 205 Fulton St, N Y — Cortlandt 7-1460
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Huber, H B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Chem & Pigments Co, Oakland, Calif
Porter-Warner Industries, Inc, Chattanooga, Tenn
Pylam Prods Co, Inc, N Y
Uhlich, Paul, & Co, Inc, N Y

concentrated CADMIUM COLORS

REDS
MAROONS
YELLOWS
ORANGES

high in coloring power
unusually permanent
heat-resistant to 1450° F.
light-fast
non-migrating, non-bleeding
insoluble in organic solvents

special shade-matching service
write for information

GENERAL COLOR COMPANY
253 WRIGHT STREET
NEWARK 5, NEW JERSEY

CADMIUM 2-ETHYLHEXOATE

†Argus Chem Lab, Inc, Bklyn, N Y

CADMIUM IODIDE

CdI_2. White flaky cryst. Occurs in two allotropic forms. Sp. gr. alpha 5.67, beta 5.30. M.P. of beta salt 404°C. M.P. 388°C. B.P. 712°C. Sol. water, alcohol, ether, ammonia. Uses—photographic iodizing agent; process engraving; lithography; in medicine. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

CADMIUM NAPHTHENATE

M.W. about 570. 19% metal. Straw color, soft solid; sol. hydrocarbons. Uses: hydration catalyst, stabilizer for resinous masses.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

†Argus Chem Lab, Inc, Bklyn, N Y

CADMIUM NITRATE

$Cd(NO_3)_2{\cdot}4H_2O$. White hydroscopic lumps or cryst. Sp. gr. 2.45. M.P. 59.5°C. B.P. 132°C. Sol. water, alcohol. Uses—coloring porcelains, potteries, glass; laboratory reagent. Grades—tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

CADMIUM OXIDE

CdO. Yellowish-red or brownish-black powd. Sp. gr. 6.95-8.11. Sol. acids; insol, water. Uses—mfr. cadmium salts; chemical catalyst; pigment in ceramics; cadmium galvanoplating. Grades—tech.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

Metallurg, Inc, N Y

CADMIUM RICINOLEATE

†Argus Chem Lab, Inc, Bklyn, N Y

CADMIUM SELENIDE

Brooks, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

Vitro Mfg Co, Pittsburgh, Pa

CADMIUM STEARATE

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Argus Chem Lab, Inc, Bklyn, N Y

CADMIUM SULFATE

$3CdSO_4 + 8H_2O$. White cryst. Sp. gr. 3.087 (25°C.). Sol. alcohol, water. Uses—mfr. cadmium electric batteries; in medicine. Grades—tech.; C.P.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

HARSHAW
THE HARSHAW CHEMICAL CO.
Cleveland 6, Ohio
AND PRINCIPAL CITIES

PIGMENTS
Antimony Oxide
Cadmium Lithopones
C. P. Cadmium Sulphides and Selenides
Cobalt Blues

CADMIUM SULFIDE (Cadmium Yellow, Jaune Brilliant, Greenockite, Aurora Yellow, Orange Cadmium, Orient Yellow)

CdS. Two modifications, orange-colored or light yellow powd. Manufactured and natural. Sp. gr. 3.9-4.8 (mid.); 4.8-4.9 (nat.). Sublimes at 980°C. Sol. acids, ammonia. Uses—mfr. blue flame pyrotechnics, glazes for glass; as pigment for paints, varnishes, paper, rubber, soap, glass and textiles; in ceramic glazes; color photography. Grades—various as to color, purity and fineness.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooks, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Expert Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575

CADMIUM SULFIDE (cont'd)

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

†Hooper Chem Corp, Rutherford, N J — †Vitro Mfg Co, Pittsburgh, Pa
Metallurg, Inc, N Y

CADMIUM TUNGSTATE (Cadmium Wolframate)

$CdWO_4$. Yellow, solid crystalline. Sol. ammonium hydroxide; slightly sol. water. Uses—mfr. fluorescent paint; catalyst in making intermediates. Grades—tech.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Linde Air Prods Co, N Y

CAESIUM

Silver-white, soft, ductile metal. Uses—photo-electric cells

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

Mackay, A D, Inc, N Y — Var-Lac-Old Chem Co, N Y

CAESIUM SALTS

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

Mackay, A D, Inc, N Y

CAFFEINE (1,3,7-trimethylxanthine, theine)

$C_8H_{10}N_4O_2{\cdot}H_2O$. M.W. 194.11. White need. from alcohol. M.P. 235-237°C. Sol. water, alcohol. Uses—medicine and beverage. Grades—U.S.P., anhydrous crystalline loss on drying at 80°C., 6.5% max. on anhydrous—25% max.

CAFFEINE, U.S.P.
Standard Forms: Anhydrous powder or hydrated flakes.
Specifications: White powder—loss on drying at 80° C.; anhydrous powder 0.25% max.; hydrated flakes, 5.75-6.50%; m.p. 236.0° C. min.; meets U.S.P. test for carbonizable impurities.
MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
1700 South Second Street
St. Louis 4, Mo.
MONSANTO CHEMICALS—PLASTICS
SERVING INDUSTRY...WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Fallek Prods Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4755
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Deresume, Raymond, Punxsutawney, Pa

CAFFEINE ALKALOID

Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870

CAFFEINE ALKALOID (cont'd)

Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870

CAFFEINE CITRATED (True Salt)

$C_8H_{10}O_2N_4 \cdot C_6H_8O_7$; mol. wt. 386.17. White cryst. powder, acid reaction. Sol.—water, alcohol with decomposition into the free base and acid.

Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Fallek Prods Co Inc, 163 Bway, N Y — Barclay 7-7939
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
†Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Rosenthal-Berlow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870

CALCIUM (Metal)

Ca. White, soft, crystalline metal. Sp. gr. 1.578 (15°C.). M.P. 810°C. Sol. acids. Uses—mfr. intermediates, alloys; dehydrating oils; metallurgical purposes; reducing agent in smelting; decarburization and desulfurization of iron and iron alloys; in place of sodium in chemical reactions.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Longview Lime Corp, Birmingham, Ala — †Marblehead Lime Co, Chicago, Ill

CALCIUM ACETATE (Lime Acetate, Acetate of Lime, Brown Acetate, Vinegar Salts, Gray Acetate, Lime Pyrolignite)

$Ca(CH_3COO)_2H_2O$. M.W. 176.14. Brown, gray, white powd., amorp. or crystalline. Decomposes on heating. Sol. water; slightly sol. alcohol. Uses—mfr. acetone, acetic acid, acetates; mordant in dyeing and printing textiles. Grades—tech. (80% basis); C.P.; pure, brown, gray.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Sargeant, E M, Pulp & Chem Co, Inc, N Y

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CUPROUS CHLORIDE
COPPER NITRATE
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CALCIUM ALUMINATE

$CaAl_2O_4$. White powd. Sp. gr. 3.67. For uses and containers see sodium aluminate.

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa — Atlantic 1-4545
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600

CALCIUM ARSENATE (Tricalcium Orthoarsenate)

$Ca_3(AsO_4)_2 + 3H_2O$. White powd. Sp. gr. 3.23. Decomposes on heating. Very slightly sol. water. Uses—as germicide, insecticide, fungicide. Grades—dry powd.; C.P.; tech.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Firestone Corp, 420 Lexington Av, N Y — Murray Hill 3-5201
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251

CALCIUM ARSENATE (cont'd)

†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Fezzy & Berthoff Inc, 325 Spring St, N Y — Worth 4-8585
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
International Salting Corp, 70 Pine St, N Y — Whitehall 4-7496
†Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
†Corona Chem Div, Milwaukee, Wisc — Niagara Chem Div, Food Machy & Chem Corp, Middleport, N Y

CALCIUM ARSENITE

$CaAsO_2H$. White, amorp. powd. Insol. water. Uses—mfr. germicidals, insecticides. Grades—tech.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

CALCIUM BENZOATE

$Ca(C_7H_5O_2)_2 \cdot 3H_2O$. White powder or crystals. Uses—medicinals.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

CALCIUM BENZYLPHTHALATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600

CALCIUM BISULFITE

$Ca(HSO_3)_2$. Exists only in solution and is really a solution of $CaSO_3$ in aqueous solution of SO_2. Slightly yellowish liq. Sp. gr. 1.06 (15°C.). Sol. water, acids. Uses—mfr. chromium bisulfide; antichlor in bleaching textiles; bleaching sponges; general preservative; sulfite pulp; disinfectant in washing barrels; in brewing; in medicine. Must not be permitted to come in contact with common metals. Grades—tech.

†Dehls & Stein, Inc, Newark, N J

CALCIUM BORATE

†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919

CALCIUM BROMIDE

$CaBr_2$. M.W. 199.91. White gran. cryst.; also lumps, flakes. Sp. gr. 3.353.; Deliquescent. Sol. water, alcohol. Grades—tech.; C.P.; granular; U.S.P.; C.P. Anhydrous. Uses—dehydrating agent; food preservative; road treatment; fireproofing paints; freezing mixtures; mining compounds; wood preservative; in medicine.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Dow Chem Co, Midland, Mich — Midland 500
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
Le Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Michigan Chem Corp, St Louis, Michigan — 41
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870

CALCIUM CACODYLATE

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543

CALCIUM CAMPHORSULFONATE

$(C_{10}H_{15}O_4S)_2Ca$. M.W. 502.6. White, odorless, stable powder; sol. water. Uses: medicinal.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600

CALCIUM CARBIDE (Acetylenogen, Acetylith)

CaC. Grayish black lumps. Sp. gr. 2.22 (18°C.). M.P. 2300°C. Decomposes water to form acetylene. Uses—mfr. acetylene, calcium cyanamid, lampblack, intermediates; reducing agent; in fertilizers; welding agent; smelting ores; steel hardener; signal lights; general illuminating purposes; dehydrating agent of desiccated foods. Grades—tech.; as to size.

CALCIUM CARBIDE (cont'd)

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Shawinigan Prods Corp, 350 5 Av, N Y	Chickering 4-1243
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950

Hardy, M W, & Co, Inc, N Y

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CALCIUM CARBONATE (Whiting, Precipitated Chalk, Paris White, Spanish Whiting, Calcite, Aragonite, Limestone, English White, Marble Dust)

$CaCO_3$. White powd., solid, mfrd., natural. Sp. gr. 2.7-2.948. Decomposes at 825°C. Sol. acid, ammonium chloride; insol. water. Uses—mfr. cement, ceramics, lime, calcium salts, carbon dioxide, ammonium chloride, intermediates, organic chemicals, tooth paste, dystuffs, fertilizer, mineral waters, crayons, building stone; putty; in plaster and mortar; as neutralizing agent; chemical catalyst; flux; linoleum filler; polishing agent; paint and varnish filler; paint pigment; paper filler; sealing oil wells; rubber filler; clarifying sugar; dyeing and printing textiles; in medicine. Grades—pure; U.S.P.; U.S.P. tech., as to color, purity, and fineness. (See also Chalk and Whiting.)

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CALCIUM CARBONATE (cont'd)

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
Dox & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200

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Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
†U S Gypsum Co, Industrial Div, 300 W Adams St, Chicago, Ill	State 2-6100
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y	Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700

†Barium & Chems, Inc, Willoughby, O
Carroll, R E, Inc, Trenton, N J
†Chaxy Lime & Stone Co, Inc, Chaxy, N Y
†Columbia Quarry Co, St Louis, Mo
†Commercial Minerals Co, San Fran, Calif
Eglesion, Wm D, Co, Cambridge, Mass

CALCIUM CARBONATE (cont'd)

†Industrial Minerals & Chem Co, Berkeley, Calif
Landen Putty Wks, Malden, Mass
†Longview Lime Corp, Birmingham, Ala
Mfrs Mining Co, Seattle, Wash
†Marblehead Lime Co, Chicago, Ill
†Mississippi Lime Co, Alton, Ill
†National Gypsum Co, Buffalo, N Y
†Palmyra Lime Prods Co, Clarksville, Tenn
Porter Warner Industries, Inc, Chattanooga, Tenn
Rimco Trading Corp, N Y
Smead & Small, Inc, Cleveland, O
Smith Lime Flour Co, Elizabeth, N J
†Thompson, Weinman & Co, N Y
†U S Lime Prods Corp, San Fran, Calif
†Warner Co, Phila, Pa
†Williams, C K, & Co, E St Louis, Ill

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Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Cyanimid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bower, Henry, Chem Mfg Co, Gray's Ferry Rd & 29 St, Phila, Pa	Howard 5-2100
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0995
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Davies Nitrate Co Inc, 118 Liberty St, N Y	Rector 2-6095
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251

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Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Le 7-4650
Elbert & Co, Inc, 2 Bway, N Y	Digby 9-2670
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610

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CALCIUM CHLORIDE (cont'd)

Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
†Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
†Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Michigan Chem Corp, St Louis, Michigan	41
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Opalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa	McKeesport 4-4278
Pope, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131

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CHEMICALS THAT YOU USE
4205 PACIFIC HIGHWAY, San Diego, Calif. WOodcrest 63113

CALCIUM CHLORIDE (cont'd)

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Barcew Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Seaboard Industries, 195 Kean St, Paterson, N J — Armory 4-2294
Seidner & Emquist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Starkweather, J U, Co, Inc, 243 Allens Av, Providence, R I — Williams 1-0812
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Travis, George W, & Co, Cornwall-on-Hudson, N Y — 3-5320

SOLVAY PRODUCTS

CALCIUM CHLORIDE

For refrigeration brine, air drying, highway dustlaying and surface binding, curing, accelerating and hardening concrete, freezeproofing and dustproofing coal and coke, ice removal on roads and for non-freezing solutions in fire pails, tractor tires, etc. Write for folders on any of the above uses of Solvay Calcium Chloride.

SOLVAY SALES DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street, New York 6, N. Y.
—BRANCH SALES OFFICES—
Boston • Charlotte • Chicago • Cincinnati • Cleveland • Detroit • Houston
New Orleans • New York • Philadelphia • Pittsburgh • St. Louis • Syracuse

Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va — 2-0113
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Central Illinois Labs, Inc, Peoria, Ill
Central O-B Prods Co, Inc, Buffalo, N Y
Chem Supply Co, Neenah, Wisc
Collier, H C, & Sons, Binghamton, N Y
Dunn Chem Co, Inc, Poughkeepsie, N Y
Empire Chem Corp, N Y
Fedigan, E J, Inc, Pittsburgh, Pa
Globe Chem Co, Cincinnati, O
Great Lakes Chem Co, Chicago, Ill
H & W Chems, Inc, Rochester, NY
Herbert Chem Co, Cincinnati, O
Heyman, N H, Inc, N Y
Hood Chem Co, Kansas City, Mo
Howard, Geo E, Harrisburg, Pa
Ideal Chem & Supply Co, Memphis, Tenn
Industrial Chem Co, Dayton, O
Interboro Chem Co, N Y
Lyon Chems, Inc, St Paul, Minn
Mfrs Chem Co, N Y
Mine & Smelter Supply Co, Denver, Colo
Pearson Ferguson Chem Co, Kansas City, Mo
Phipps & Bird, Inc, Richmond, Va
Pioneer Salt Co, Phila, Pa
Rodgers Chem Co, Inc, Pittsburgh, Pa
Seidler Chem & Supply Co, Newark, N J
Speiden-Whitfield Co, N Y
Steidle Chem Co, Louisville, Ky
Ulrich Chem Co, Indianapolis, Ind
Western Chems, Inc, Portland, Ore
Western Pa Chem Co, Inc, Altoona, Pa
White Star Chem Corp, Jacksonville, Fla

CALCIUM CHLORIDE
Flake, 77-80%, meeting A.S.T.M. specifications
Liquor • Solid • Anhydrous • Broken Solid
Wyandotte
REG. U. S. PAT. OFF.
WYANDOTTE CHEMICALS CORPORATION
WYANDOTTE, MICHIGAN • OFFICES IN PRINCIPAL CITIES
Soda Ash • Caustic Soda • Bicarbonate of Soda • Calcium Chloride
Calcium Carbonate • Chlorine • Hydrogen • Dry Ice • Synthetic
Detergents • Glycols • Carbose (Sodium CMC) • Ethylene Dichloride • Propylene Dichloride • Aromatic Sulfonic Acid Derivatives
Other Organic and Inorganic Chemicals

CALCIUM CHLORIDE (Anhydrous)

$CaCl_2$. White powd. Uses—as a desiccant. Cont.—various.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bower, Henry, Chem Mfg Co, Gray's Ferry Rd & 29 St, Phila, Pa — Howard 5-2100
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Travis, George W, & Co, Cornwall-on-Hudson, N Y — 3-5320
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Miller, Carl F, & Co, Inc, Seattle, Wash
Minnesota Chem Co, St Paul, Minn
Monarch Chem Wks, Inc, Omaha, Neb
Weinstein, Joseph, Phila, Pa

Anhydrous
Calcium Chloride
TECHNICAL
A Highly Porous Product
96-99% dry
Available in any size from 6" lumps to No. 20 mesh and powder
SAMPLES ON REQUEST
Manufactured by
GEORGE W. TRAVIS & CO.
Cornwall-on-Hudson Telephone 3-5320 N. Y.

CALCIUM CHROMATE, ANHYDROUS

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
†Barium & Chems, Inc, Willoughby, O

CALCIUM CITRATE

$Ca_3(C_6H_5O_7)_2.4H_2O$. M.W. 570.38. White powd. M.P.—$2H_2O$, 130° C. B.P.—$4H_2O$, 185° C. Sltl. sol. alcohol, water. Uses—medicine.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

CALCIUM CREOSOTATE

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

CALCIUM CYANAMIDE (Cyanamide, Lime Nitrogen, Nitrolim)

$CaCN_2$. Black, crystalline lumps or powd. Sp. gr. 1.083. Decomposes in water to liberate ammonia. Uses—mfr. ammonia, nitrogen products, urea, thioures, guanidine, pharmaceuticals, ceronal; in fertilizer; as cementation and hardening steel. Grades—tech.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Priddy, C W, & Co, Inc, Norfolk, Va

CALCIUM CYANIDE (Powdered Cyanic Acid)

$CaCN_2$, also $Ca(CN)_2.8CaO.15H_2O$. White powd. (pire), tech. grades grayish black. Decompose on heating. Sol. water. Uses—mfr. cyanamid; hardening iron; insecticide and fungicide for killing rodents. Grades—A dust; tech.

†Amer Cyanamid Co, Agric Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Amer Cyanamid Co, Mineral Dressing Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Intnl Ore & Fertilizer Corp, N Y

CALCIUM 2-ETHYLHEXOATE

†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

CALCIUM FERROCYANIDE

$Ca_2Fe(CN)_6.12H_2O$. Yellow cryst. Decomposes on heating. Sol. water. Uses—mfr. of citric and tartaric and other acids. Grades—tech.

CALCIUM FERROCYANIDE
HENRY BOWER CHEMICAL MANUFACTURING COMPANY
29th & GRAY'S FERRY ROAD, PHILADELPHIA 46, PA.

CALCIUM FERROCYANIDE (cont'd)

†Bauer, Henry, Chem Mfg Co, Gray's Ferry Rd & 29 St, Phila, Pa — Howard 5-2100
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3633

CALCIUM FLUORIDE

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214

†Barium & Chems, Inc, Willoughby, O
†Industrial Minerals & Chem Co, Berkeley, Calif

CALCIUM FORMATE

$Ca(OOCH)_2$. M.W. 130.09. Hard, colorless crystals. Uses: manufacture of formic acid, metallic and organic formate derivatives; chemical intermediate.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 25-32 Shillman Av, Long Is City, N Y — Stillwell 6-2330
†Trojan Powder Co, Allentown, Pa — 45201

CALCIUM GLUCONATE

$[C_6H_9(OH)_5COO]_2Ca$. M.W. 430.30. Used in mfr. medicinals and pharmaceuticals.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Lewis, Paul, Lab, Inc, Milwaukee, Wis

GLUCONATES

- CALCIUM GLUCONATE
- FERROUS GLUCONATE
- ACID GLUCONIC TECH.
- GLUCONO-DELTA-LACTONE
- MAGNESIUM GLUCONATE
- MANGANESE GLUCONATE
- SODIUM GLUCONATE
- POTASSIUM GLUCONATE
- AMMONIUM GLUCONATE TECH.

Chas. PFIZER & Co., Inc.
Manufacturing Chemists Since 1849
630 Flushing Ave., Brooklyn 6, N.Y. · 429 N. Michigan Ave., Chicago 11 Ill. · 605 Third St., San Francisco 7, Calif.

CALCIUM GLUTAMATE

Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Huron Milling Co, Inc, N Y

CALCIUM GLYCEROPHOSPHATE

$CaO_3{:}PO.OC_3H_6(OH)_2$. M.W. 210.18. White, odorl., powd. Sol. water, insol. alcohol. Uses—medicine. Grade—98% minimum.

Amer Reland Corp, 16 Hudson St, N Y — Digby 9-0170
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Huisking, Chas. L, & Co, Inc, 155 Virick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

CALCIUM GUAIACOL SULFONATE (Gualacyl)

$Ca(C_6H_3OHOCH_3SO_3)_2$. Bluish-gray powder. Uses—medicinal.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

CALCIUM HYDRIDE

CaH_2. M.W. 42. Uses: source of hydrogen; drying agent, reducing and condensing agent.

Heyden
GLYCEROPHOSPHATES

Calcium Glycerophosphate N.F. (Powder)
Ferric Glycerophosphate N.F. (Powder)
Magnesium Glycerophosphate (Powder)
Manganese Glycerophosphate N.F. (Powder)
Potassium Glycerophosphate (75% Solution)
Sodium Glycerophosphate (Crystals and Powder) (50% and 75% Solution)

FINE HEYDEN CHEMICALS

HEYDEN CHEMICAL CORPORATION
393 SEVENTH AVE., NEW YORK 1, N.Y.
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CALCIUM HYDRIDE (cont'd)

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2725
†Metal Hydrides, Inc, 16 Congress St, Beverly, Mass — Beverly 1875

CALCIUM HYDROXIDE (Lime Hydrate)

$Ca(OH)_2$ M.W. 74.10. Sp. gr. 2.343. White powder. Sol. 0.185 g/100 cc @ 0° C. 0.077 g/100 cc @ 100° C. Uses—in manufacture cements; mortars; calcium salts; depilatory; paints; in softening of hard boiler feed water; in conversion of soda and recovered ash into caustic soda; in medicine; chlorinated lime; dehairing hides; purifying sugar juices.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†U S Gypsum Co, Industrial Div, 300 W Adams St, Chicago, Ill — State 2-6100

Austin White Lime Co, Austin, Texas
†Chazy Lime & Stone Co, Inc, Chazy, N Y
†Longview Lime Corp, Birmingham, Ala
†Marblehead Lime Co, Chicago, Ill
†Mississippi Lime Co, Alton, Ill
†National Gypsum Co, Buffalo, N Y
†Palmyra Lime Prods Co, Clarksville, Tenn
†Smith Lime Flour Co, Elizabeth, N J
†U S Lime Prods Corp, San Fran, Calif
†Warner Co, Phila, Pa

CALCIUM HYPOCHLORITE—see also Bleaching Powder

$Ca(OCl)_2$. Dry stable powd. containing 70% available chlorine. Uses—as laundry and textile bleach; germicide and deodorant in dairy, food plants, swimming pools, water works, etc.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Cowles Chem Co, 7016 Euclid Av, Cleveland, O — Henderson 1-3400
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8500
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Opalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa — McKeesport 4-4278
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531

CALCIUM HYPOCHLORITE (cont'd)

Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Champion Chem Wks, N Y
Empire Chem Corp, N Y
Fedigan, E J, Inc, Pittsburgh, Pa
Herbert Chem Co, Cincinnati, O
Howard, Geo E, Harrisburg, Pa
Pioneer Salt Co, Phila, Pa
Ulrich Chem Co, Indianapolis, Ind
Western Pa Chem Co, Inc, Altoona, Pa
White Star Chem Corp, Jacksonville, Fla

CALCIUM HYPOPHOSPHITE

$Ca(H_2PO_2)_2$. White to grayish-white crystals or powder. Uses—medicinal.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Oldbury Electro Chem Co, 19 Rector St, N Y — Digby 4-1668
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

CALCIUM IODIDE

CaI_2 M.W. 293.92. Yellowish white. Very hygroscopic. Sp. gr. 3.956 @ 25°C. M.P. 575°C. B.P. 718°C.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

CALCIUM LACTATE

Available in U.S.P. and Edible Grades.
A more economical, more soluble, more concentrated form of organic calcium.
Valuable in calcium nutrition and therapy.
Useful as a base chemical.

SHEFFIELD FARMS COMPANY, INC.
CHEMURGIC DIVISION
Main Office: Norwich, N. Y. Branch Sales Office: 524 W. 57th St., New York 19, N. Y.
Div. of National Dairy Products Corp.

CALCIUM LACTATE

Contains not less than 70% and not more than 75% of Ca $(C_3H_5O_3)_2$ corresponding to not less than 98% of the hydrated salt $(Ca(C_3H_5O_3)_2 3H_2O)$. White granular masses or powder. Odorless usually; efflorescent; becomes anhydrous at 120°C. Grades—U.S.P. and edible. Uses—mfr. foods, beverages.

†Amer Maize Prods Co, 100 E 42 St, N Y — Murray Hill 3-9200
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Conway Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2969
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Newberg, Wm D, Co, Inc, 420 Lexington Av, N Y — Oregon 9-2550
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
†Sheffield Farms Co, Inc, Chemurgic Div, P O Box 630, Norwich, N Y — Norwich 915
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

CALCIUM LACTOPHOSPHATE

Mixture of calcium lactate, calcium acid lactate and calcium biphosphate. White odorless powder. Sol. water; insol. alcohol. Uses: to obtain therapeutic effects of calcium.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Red Star Chem Co, Inc, Long Is City, N Y

CALCIUM LAURATE

†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981

†Red Star Chem Co, Inc, Long Is City, N Y

CALCIUM LEVULINATE

$Ca(CH_3CO.(CH_2)_2COO)_2 2H_2O$. White powd. Sol. water; insol. ether. Uses—medicinal (calcium therapy). Grades—C.P. Cont.—fiber, plywood, various sizes.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330

CALCIUM LEVULINATE (cont'd)

Conway Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-3805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Lewis, Paul, Lab, Inc, Milwaukee, Wis

CALCIUM LIGNIN SULFONATE

†Marathon Corp, Chem Div, Rothschild, Wis
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131

†Puget Sound Pulp & Timber Co, Bellingham, Wash

CALCIUM LINOLEATE

$Ca(C_{18}H_{33}O_2)_2$. White amorp. powd. Sol. alcohol, ether; insol. water. Uses—mfr. paints, varnishes, waterproofing compounds. Grades—tech.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

†Commonwealth Color & Chem Co, N Y

CALCIUM MAGNESIUM CHLORIDE (Magnesium Calcium Chloride)

$CaCl_2$ $MgCl_2$. White, solid, deliq. crystalline. Sol. water, acids. Uses mfr. intermediates, synth., dyes, organic chemicals, artificial mineral waters, dry colors, fireproof paints, ammonium chloride, paper size; dehydrating agent in chemical processes; preserving and fireproofing wood; sizing and finishing textiles; freezing mixtures; as preservative; dehydrating starch; laboratory reagent. Grades—tech.

†Dow Chem Co, Midland, Mich — Midland 500

CALCIUM MANDELATE

$[C_6H_5CH(OH)COO]_2$ Ca. M.W. 342.41. Used in preparation of pharmaceuticals.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

CALCIUM MOLYBDATE

†Climax Molybdenum Co, N Y — †Shattuck, S W, Chem Co, Denver, Colo

CALCIUM NAPHTHENATE

See Aluminum Naphthenate for uses.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Ferro Chem Corp, Bedford, O — †Industrial Lining Engrs, Inc, Pittsburgh, Pa

CALCIUM NICOTINATE

$(C_5H_4NCOO)_2Ca$. M.W. 284. Colorless prisms. Insol. water. Uses: pharmaceutical.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330

CALCIUM NITRATE (Lime Nitrate, Wall Saltpeter, Lime Saltpeter, Norwegian Saltpeter, Nitrocalcite, Norge Niter)

$Ca(NO_3)_2 4H_2O$. White, deliq. mass. Sp. gr. 1.9 (18°C.). M.P. 42.31°C. B.P. 132°C. Sol. water, alcohol. Uses—mfr. inorganic nitrates, pyrotechnics, incandescent gas mantles; fertilizer. Grades—tech.; pure; C.P.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620

Baker's chemicals

ANALYZED REAGENTS Baker's FINE CHEMICALS

CALCIUM NITRATE TECH.

J. T. BAKER CHEMICAL CO.
PHILLIPSBURG, N.J.
New York Philadelphia Chicago

CALCIUM NITRATE

Form: Crystals or solution in SD-3A alcohol.

Uses: Coagulant in latex dipping processes.

MONSANTO CHEMICAL COMPANY
Merrimac Division
Everett Station
Boston 49, Mass.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY . . . WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

CALCIUM NITRATE (cont'd)

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Barium & Chems, Inc, Willoughby, O — Barlow & Schlosser Co, Providence, R I

CALCIUM NITRIDE

Ca_3N_2. M.W. 148.26. Uses: high temperature vacuum melting; ceramics.

Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Taber 0251
†Metal Hydrides, Inc, 16 Congress St, Beverly, Mass — Beverly 1875

CALCIUM OLEATE

$[CH_3(CH_2)_7CH:CH(CH_2)_7COO]_2Ca$. M.W. 602.64. Used in mfr. certain kinds of pigment materials and driers.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

CALCIUM OXALATE

$CaC_2O_4H_2O$. M.W. 146.10. White cryst. Sol. HCl, HNO_3. Insol. water.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

CALCIUM OXIDE

(Lime, Burnt Lime, Calx, Quick-Lime). CaO. Mol. wt. 56.08; white hard lumps; Sp. Gr. 3.40; M. P. 2,572°C. Sol.—acid. Use—For making mortar, plaster; manuf. of chlorinated lime; making calcium hydroxide which is used medicinally, etc.

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa — Atlantic 1-4545
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Taber 0251
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†U S Gypsum Co, Industrial Div, 300 W Adams St, Chicago, Ill — State 2-6100

Austin White Lime Co, Austin, Texas
†Chazy Lime & Stone Co, Inc, Chazy, N Y
†Con Chem Industries, Inc, San Fran, Calif
†Longview Lime Corp, Birmingham, Ala
†Marblehead Lime Co, Chicago, Ill
†Mississippi Lime Co, Alton, Ill
†National Gypsum Co, Buffalo, N Y
†Palmyra Lime Prods Co, Clarksville, Tenn
†Smith Lime Flour Co, Elizabeth, N J
†U S Lime Prods Corp, San Fran, Calif
†Warner Co, Phila, Pa

CALCIUM PANTOTHENATE

$(C_9H_{16}O_5N)_2Ca$. Prepared from Beta-alanine and butyraldehyde. White, odorless, microcrystalline powder; it is dextrorotatory. Freely soluble in water; neutral or slightly alkaline to litmus.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Uhe, George, Co, Inc, 75 E Av, N Y — Watkins 9-0870
Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

CALCIUM PERCHLORATE

†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

CALCIUM PERMANGANATE (Acerdol)

$Ca(MnO_4)_2.4H_2O$. M.W. 350. Sp. gr. 2.4. Purple hygroscopic prisms that decompose on heating. Sol. water. Uses—as a disinfectant; in research. It is more active and less stable than potassium permanganate.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
†Carus Chem Co Inc, Union & 8 Sts, La Salle, Ill — La Salle 1500
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600

CALCIUM PERMANGANATE (cont'd)

prisms that decompose on heating. Sol. water. Uses—as a disinfectant; in research. It is more active and less stable than potassium permanganate.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
†Carus Chem Co Inc, Union & 8 Sts, La Salle, Ill — La Salle 1500
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600

CALCIUM PEROXIDE

$CaO_2.8H_2O$. White to yellow crystalline powd. Slightly sol. in water. Avail. oxygen 13.4%. Uses—as a bactericide detergent, mfr. cosmetic preparations; in medicine; prevents fermentation of organic matters. Grades—40-75%.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Becco Sales Corp, Buffalo, N Y — Bedford 8300
†Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Barium & Chems, Inc, Willoughby, O

CALCIUM PHOSPHATE, DIBASIC (Dicalcium Orthophosphate, Bicalcic Phosphate, Bibasic Calcium Phosphate, Secondary Calcium Phosphate)

$CaHPO_4 + 2H_2O$. White, deliq. powd. Sp. gr. 2.306 (16.5°C.). Decomposes at 25°C. Sol. acids; insol. water, alcohol. Uses—mfr. glass; fertilizer; leavening agent in baking; in medicine; as tooth paste polishing agent. Grades—tech; pharmaceutical; pure food.

†Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0995
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

Columbia Quarry Co, St Louis, Mo

CALCIUM PHOSPHATE, HEMIBASIC

$Ca(H_2(PO_4)_2)_2$. White crystals, quite hygroscopic. Completely sol. water, decomposes in alcohol. Uses—Acidulants.

Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

CALCIUM PHOSPHATE, MONOBASIC (Acid Calcium Phosphate, Calcium Biphosphate, Calcium Phosphate, Primary Monocalcium Phosphate, Acid Phosphate of Lime, Calcium Dihydrogen Phosphate, Mono-basic Calcium Phosphate)

$CaH_4P_2O_8.H_2O$. M.W. 252.17. White deliq. crystalline powd. or granules. Sp. gr. 2.9. Loses water at 100°C. Decomposes at 200°C. Slightly sol. water, acids. Uses—mfr. baking powd.; in flour mills. Grades—tech.; C.P.

†Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

MONSANTO CALCIUM PHOSPHATES

Mono Calcium Phosphate • Di Calcium Phosphate
Tri Calcium Phosphate • Calcium Pyrophosphate

Conform with requirements of Federal and State Pure Food Laws. For food and industrial use.

MONSANTO CHEMICAL COMPANY
Phosphate Division
St. Louis 4, Mo.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY . . . WHICH SERVES MANKIND

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Victor
MONO-, DI-, AND TRICALCIUM
PHOSPHATES
VICTOR CHEMICAL WORKS
141 W. Jackson Blvd., Chicago 4, Illinois

CALCIUM PHOSPHATE, MONOBASIC (cont'd)

†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113

VC CHEMICALS
V-C MONOCALCIUM PHOSPHATE
Specially prepared for food and various industrial uses.
V-C PHOSPHATE PASTES
For sugar and other clarificant uses.
VIRGINIA-CAROLINA CHEMICAL CORPORATION
CHEMICALS DIVISION • RICHMOND 5, VIRGINIA

CALCIUM PHOSPHATE TRIBASIC (Precipitated Calcium Phosphate, Tricalcium Orthophosphate, Bone Ash, Calcium Orthophosphate, Tricalcium Phosphate, Tricalcic Phosphate, Tertiary Calcium Phosphate)

$Ca_3(PO_4)_2$. White, amorp. powd. Sp. gr. 3.14. M.P. 1670°C. Sol. acids; insol. water, alcohol. Uses—mfr. phosphorus, milk, glass, porcelains, potteries, ceramic glazes, monobasic calcium phosphate, polishing powers., rubber, cattle foods; clarifying sugar syrups; mordant in dyeing and printing textiles with turkey red; in medicine. Grades—tech.; pure precipitated; C.P.; U.S.P. VII.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Elbert & Co, Inc, 2 Bway, N Y	Digby 9-2670
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541

†Coronet Phosphate Co, N Y

CALCIUM PROPIONATE

$Ca(CH_3.CH_2.COO)_2$; mol. wt. 186.16; white powder. Sol.—water, slightly in alcohol.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121

CALCIUM PYRO PHOSPHATE (Pyrophosphate of Calcium)

$Ca_2P_2O_7$. An amorphous white powd. Uses—as a polishing base in dentifrices; as a mild abrasive for metal polishing. Grades—Anhyd. (contains above 54% P_2O_5).

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Elbert & Co, Inc, 2 Bway, N Y	Digby 9-2670
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541

CALCIUM RESINATE

$Ca(C_{44}H_{62}O_4)_2$. Yellowish-white, amorp. powd. or lumps. Sol. acids; insol. water. Uses—mfr. potteries, porcelains, perfumes, cosmetics, enamels, waterproofing compounds for fabrics, wood, paper, etc.; as amber substitute; tanning leather. Grades—tech.

†Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill	Bishop 2-1374
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa	Michigan 4-3460
†Newport Industries Inc, 230 Park Av, N Y	Murray Hill 6-7305
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552
Scheel, Wm H, Inc, Bklyn, N Y	

CALCIUM RICINOLEATE

†Baker Caster Oil Co, 119 Bway, N Y	Digby 9-0500
†Leffingwell Chem Co, P O Box 191, Whittier, Calif	Oxford 42-653
Argus Chem Lab, Inc, Bklyn, N Y	

CALCIUM d-SACCHARATE (Antacidin, Saccharated Lime)

White powd. Sol. water. Uses—in preserving and drying milk, medicine.

†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

CALCIUM SALICYLATE

$Ca(C_6H_4.OH.COO)_2.2H_2O$. M.W. 350.25. White, odorl., tastel. cryst. Sol. water. Uses—medicine. Grades—purity 99+%.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Dow Chem Co, Midland, Mich	Midland 500
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600

CALCIUM SILICATE

White amorphous powder. Uses—medicinal.

Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960

CALCIUM STEARATE (Calcium Stearinate)

$Ca(C_{18}H_{35}O_2)_2$. White, pulverized mass or powd. Sol. alcohol, ether; insol. water. Uses waterproofing textiles, plastics, concrete, wood. Grades—tech.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
†Leffingwell Chem Co, P O Box 191, Whittier, Calif	Oxford 42-653
La Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
†Mathe Chem Co, 169 Millbank St, Lodi, N J	Prescott 9-4981
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Metasap Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y	Beekman 3-3162
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
†Reheis Co Inc, Berkeley Hghts, N J	Summit 6-7110
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651
†Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670

STEARATES
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• BARIUM • CADMIUM
• LEAD • COPPER • STRONTIUM
• CHROMIUM • COBALT • IRON
• MANGANESE • NICKEL • MERCURY
MATHE
MATHE CHEMICAL COMPANY
169 MILLBANK STREET • LODI, NEW JERSEY

CALCIUM STEARATE (cont'd)

Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Berlow & Schlosser Co, Providence, R I — Lewis Chem Co, Inc, Boston, Mass

CALCIUM SUCCINATE
PARAAMINOBENZOIC ACID
SALICYLAMIDE • BROMASPIRIN

CHEMO PURO MANUFACTURING CORP.
26-32 Skillman Ave. — Long Island City, N. Y

CALCIUM SUCCINATE

$(CH_2COO)_2Ca$. M.W. 210.16. White, crystalline powder. Slightly sol. water; sol. diluted acids. Uses: medicinal.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Fallek Prods Co Inc, 163 Bway, N Y — Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

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THE FULL LINE FINE CHEMICAL HOUSE

CALCIUM SUCCINATE
CAMPHOR MONOBROMATED
CHLORAL HYDRATE
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PARA AMINO SALICYLIC ACID
PARA AMINO SALICYLATE SODIUM
PHENOLPHTHALEIN

THE NEW YORK QUININE & CHEMICAL WORKS, INC.
General Offices 99-117 N. Eleventh St. • Brooklyn 11, N. Y.
Chicago Plant 729 W. Division St. • Chicago 10, Ill.

CALCIUM SULFATE (Plaster of Paris)—see also Gypsum

$CaSO_4$. White powd. Uses—mfr. paint, varnish, fertilizer, stucco, polishing pwrs., imitation ivory and other plastics, ceramic products, metal adhesives, glass, cements, cement compositions as a retarder, paper and rubber filler; ingredient in fertilizer; drying industrial gases; air conditioning; drying of solids, in complete and rapid drying of the alcohols and most other organic liquids. Grades—tech.; dental.

U.S. GYPSUM — Reg. U.S. Pat. Off. — UNITED STATES GYPSUM

Calcium Sulfate
CALCIUM SULFATE FILLERS
(Hydrous & Anhydrous)
Terra Alba
Industrial Gypsum Plasters
HYDROCAL* Super Strength Gypsum Cements

UNITED STATES GYPSUM COMPANY
Industrial Division
300 W. Adams St. — Chicago 6, Illinois

*HYDROCAL is a trademark Reg. U. S. Pat. Off. for a super-strength gypsum cement manufactured by the United States Gypsum Co.

CALCIUM SULFATE (cont'd)

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0-251
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†U S Gypsum Co, Industrial Div, 300 W Adams St, Chicago, Ill — State 2-6100
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
†National Gypsum Co, Buffalo, N Y

CALCIUM SULFATE, Anhydrous—see also Desiccants

Product largely used as a laboratory and large scale desiccant.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†U S Gypsum Co, Industrial Div, 300 W Adams St, Chicago, Ill — State 2-6100
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749

†Barium & Chems, Inc, Willoughby, O
Berlow & Schlosser Co, Providence, R I
†National Gypsum Co, Buffalo, N Y
†Williams, C K, & Co, E St Louis, Ill

CALCIUM SULFIDE (Calcic Liver of Sulfur, Heparcalcis, Sulfurated Lime)

CaS. Yellowish to light gray powd. Sp. gr. 2.8 (18°C.). Sol. acids. Uses—mfr. luminous paints and varnishes. Grades—tech.; U.S.P.

†Einar & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Barium & Chems, Inc, Willoughby, O

CALCIUM SULFITE

$CaSO_3.2H_2O$. White powd. Loses water at 100°C. Sol. sulfurous acid; slightly sol. water. Uses—mfr. pulp; food preservative; discoloration retarder; general antiseptic and disinfectant; antichlor in bleaching textiles; disinfectant in various fermentation processes. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2725
†Barium & Chems, Inc, Willoughby, O

CALCIUM SULFOCARBOLATE (Calcium Phenosulfonate,—Sulfophenate,—Sulfophenolate)

$Ca(C_6H_4)[OH]SO_3]_2.H_2O$. M.W. 404.45. White to pinkish powd. Sol. water, alcohol. Uses—medicine.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

CALCIUM TARTRATE

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Barium & Chems, Inc, Willoughby, O

CALCIUM THEOBROMINE

$(C_7H_7O_2N_4)_2Ca$. M.W. 874. Uses: medicinal.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330

CALCIUM THIOCYANATE

$Ca(SCN)_2.3H_2O$. M.W. 210.23.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330

CALCIUM THIOGLYCOLATE

$CaSCH_2COO.3H_2O$. M.W. 184. White powder. Sol. water. Uses: depilatory preparations.

†Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071

CALCIUM TITANATE

★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

CALCIUM TUNGSTATE (Calcium Orthotungstate, Normal Calcium Wolframate)

$CaWO_4$. M.W. 288.08. Sp. gr. 6.06. Shining cryst. scales. Slightly sol. water. Uses—mfr. luminous paints; in photography x-ray pictures; in medicine.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

†Linde Air Prods Co, N Y
Metallurg, Inc, N Y
†North Metal & Chem Co, York, Pa
†Shattuck, S W, Chem Co, Denver, Colo

CALCIUM UNDECYLENATE

†Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981

CALCIUM ZIRCONATE SILICATE

★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

CAMPHENE

Colledge, E W, GSA, Inc, Jacksonville, Fla
†Crosby Chems, Inc, De Ridder, La
Wilson, T C, Co, San Fran, Calif

CAMPHOR MONOBROMATED (Alphabromo-Camphor)

$C_{10}H_{15}OBr$. M.W. 231.1°C. White, crystalline powder with a mild, camphor-like odor. Discolors on long exposure to sunlight. M.P. 76°C. Insol. in water, moderately sol. in alcohol, and very sol. in acetone, chloroform, and benzene. Uses—in medicine, as an antispasmodic and sedative; in mfr. medicinals. Grades—U.S.P. IX.

GEORGE UHE CO., INC.
75 EIGHTH AVENUE
NEW YORK 14, N.Y.
Established 1921
BROKERS and SELLING AGENTS

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Dow Chem Co, Midland, Mich — Midland 500
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
Le Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

CAMPHOR USP
MILK SUGAR USP
SPERMACETI WAX USP
BEESWAX USP
LANOLIN USP
ROSENTHAL-BERCOW CO. INC.
DRUGS CHEMICALS OILS WAXES
25 East 26th Street | New York 10, N. Y.
Cable Address "RODRUG" All Codes

CAMPHOR MONOBROMATED (cont'd)

†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

MUTCHLER CHEMICAL CO., Inc.
CAMPHOR
Agar Agar
Bromides
Gum Arabic
Gum Tragacanth
Japan Wax
Menthol
Oil Anise
Cod Liver Oil
Sodium Bicarbonate
Spermaceti Wax
Also a complete line of
Industrial and Fine Chemicals, Drugs, Acids, Gums, Essential Oils, Waxes, Solvents and Dyestuffs
259 Broadway, New York 7, N. Y. — Digby 9-4735

CAMPHOR, NATURAL (Gum Camphor)

$C_{10}H_{16}O$. M.W. 152.23. Colorless or white crystals, granules, or crystalline masses. Sol. alcohol, ether, chloroform, volatile or fixed oils. Uses: internal or external medicinal preparations; veter. med.; in celluloid films, explosives, insect repellents, lacquers, varnishes.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
Magnus, Mabee & Reynard, Inc, 16 Destresses St, N Y — Walker 5-1110
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Enco Chem Corp, N Y
†Siber, Hegner & Co, Inc, N Y
Weinstein, Joseph, Phila, Pa

Pharmaceutical Industrial
Imports CHEMICALS Exports
Distributors
CAMPHOR U.S.P. Du Pont
SULFUR PRECIP. U.S.P. Imported
NAPHTHALENE Leading Brands
COD LIVER OIL U.S.P. Peder Devold
HYOSCINE HYDROBROMIDE
MENTHOL CRYSTALS U.S.P., ALKALOIDS,
TANNIC ACID, GALLIC ACID, Etc.
DRUGS • OILS • GUMS
CHAS. L. HUISKING & CO., INC.
Varick & Vandam Sts., New York 13, N. Y.
Chicago Office 333 N. Michigan Ave. ESTABLISHED 1910 Cable Address: Huisking, New York

CAMPHOR, SYNTHETIC

$C_{10}H_{16}O$. White crystalline solid with characteristic odor.

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Magnus, Mabee & Reynard, Inc, 16 Destresses St, N Y — Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878

CAMPHOR U.S.P.
POWDER • TABLETS

CHEMICAL DIVISION
McKESSON & ROBBINS, INC.
155 EAST 44th STREET • NEW YORK 17, N.Y.
★ Offices in All Principal Cities ★

CAMPHOR, SYNTHETIC (cont'd)

Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091

CAMPHORIC ANHYDRIDE

†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
Lack Chem Co, 19 Park Pl, N Y	Cortlandt 7-5942
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818

CAMPHOSULFONATES

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500

CAPRYL BENZYL SEBACATE

†Hardesty Chem Co, Inc, 41 E 42 St, N Y	Murray Hill 2-6270

CAPRYLYL CHLORIDE (Octanoyl Chloride)

$CH_3(CH_2)_6COCl$. M.W. 162.7. Water white to straw colored liquid; pungent odor. Miscible with most common solvents; reacts with water, alcohol. Uses: synthesis of emulsifying agents and lubricants.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y	6655

CARAMEL (Burnt Sugar Coloring)

Dark brown, deliq. amorp. powd. Sol. water. Uses—coloring liquids, foods; flavoring tobacco; in medicine.

Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4733
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
†Dehls & Stein, Inc, Newark, N J	Laist, H R, Co, San Fran, Calif
Felton Chem Co, Inc, Bklyn, N Y	

CARBARSONE

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Conway Prods Co, 510 6 Av, N Y	Oregon 5-2505
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

CARBAZOLE

$C_{12}H_9N$. M.W. 167. B.P. 354° C. F.P. not less than 243° C. Insol water; slightly sol. alcohols, aromatic hydrocarbons; very sol. pyridine bases. Uses: dyestuffs, explosives, insecticides, resins, organic synthesis.

Aceto Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
†Reilly Tar & Chem Corp, 1613 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8556

"CARBITOL"* PHTHALAE

(*Reg. Trade-Mark—Carbide & Carbon Chemicals Corp.)

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-0610
†Ohio-Apex Inc, Nitro, W Va	Nitro 152
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J	Rutherford 8-7420

Darco® Activated Carbons

For decolorizing, purifying and deodorizing liquids, solutions and liquefiable substances. Special grades for sugars and syrups, chemicals, pharmaceuticals and food products.

DARCO DEPARTMENT
ATLAS POWDER COMPANY
Darco General Sales Offices
60 East 42nd Street, New York 17, N. Y.

CARBON ACTIVATED (Carbon Clarifying, Carbon Decolorizing, Carbon Deodorizing)

Carbon in various physical conditions such that the absorption power is high. Uses—decolorizing agent; filtering medium; clarifying agent; gas absorption and purification; in solvent recovery systems; decolorizing and deodorizing. Grades—various as to brand and use.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-8201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120

NORIT
ACTIVATED CARBONS
for decolorizing, deodorizing, clarifying and purifying Chemical and Pharmaceutical solutions
R. W. GREEFF & CO., INC.
10 Rockefeller Plaza, New York 20, N. Y.
Selling agents for
American Norit Co., Inc.
Plant at Jacksonville, Fla.

Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
†Darco Corp, 60 E 42 St, N Y	Vanderbilt 6-1730
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Opako Lab, 20 E Pittsburg Blvd, McKeesport, Pa	McKeesport 4-6278
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-9817

NORIT
ACTIVATED CARBON FOR
Fats and Oils — Glycerine
Water Taste and Odor Control
Wines and Alcoholic Beverages
Catalysis

FULLERS EARTH
BLEACHING CLAYS
INFUSORIAL EARTH
BENTONITE

L. A. SALOMON & BRO.
216 Pearl Street, New York 7, N. Y.

CARBON ACTIVATED (cont'd)

Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Barada & Page, Inc, Kansas City, Mo
Braun Knecht Heimann Co, San Fran, Calif
Cliffs Dow Chem Co, Marquette, Mich
Dieckmann, Jr, J H, San Fran, Calif
Minnesota Chem Co, St Paul, Minn
White Star Chem Corp, Jacksonville, Fla

Baker's chemicals

ANALYZED REAGENTS Baker's FINE CHEMICALS

CARBON DISULFIDE, Tech.

(Carbon Bisulfide)

99.99% Pure

J. T. BAKER CHEMICAL CO.
PHILLIPSBURG, N. J.

New York Philadelphia Chicago

CARBON BISULFIDE (Carbon Disulfide)

CS_2. Colorless liq. Odorless when pure, disagreeable otherwise. Sp. gr. 1.29272 (0°C.). M.P. —111.6°C. B.P. 46.25°C. Flash point 20°C. Ignition point under 200°C. Sol. alcohol, ether; slightly sol. water. Uses—mfr. rayon, varnishes, paint and varnish removers, rubber cements, germicides, cyanides, carbon tetrachloride, synth. hydrocarbons, ammonium sulfocyanide, matches, motor fuels, moth exterminator, vermin killer; cold vulcanizing agent; rubber, gutta percha, resin and wax solvent; preservative and insecticide; refrigerant; degreasing wool; extracting medium for resins and waxes, essential oils from flowers, fats and oils from oilseeds; soil disinfectant; general solvent; laboratory reagent; solvent of alkaloids and extracting aromatic substances and pharmaceutical products from seeds, roots, etc.; purifying paraffin; solvent for separation of bitumens and sulfur. Vapors highly inflam. Mixed with air explosive. Grades—99.9%; U.S.P.

CARBON BISULFIDE

DOW

THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products
Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.
See listing ad for other products

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331

Stauffer CHEMICALS SINCE 1885

CARBON BISULPHIDE

Highest Quality (Purity not less than 99.99%)

Stauffer Chemical Company

420 Lexington Avenue, New York 17, N. Y.
221 N. LaSalle Street, Chicago 1, Illinois
636 California Street, San Francisco 8, California
824 Wilshire Blvd., Los Angeles 14, Calif.
Houston 2, Texas N. Portland, Oregon
Weslaco, Texas Apopka, Fla.

For address of nearest branch office and complete list of our other products see our Catalog ad.

CARBON BISULFIDE (cont'd)

Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Barada & Page, Inc, Kansas City, Mo
Pearson Ferguson Chem Co, Kansas City, Mo
Steidle Chem Co, Louisville, Ky
†Wheeler, Reynolds & Stauffer, San Fran, Calif

CARBON BLACK (Channel Black, Gas Black, Natural Gas Black, Ebony Black, Jet Black, Hydrocarbon Black)—see also Lamp Black, also Carbon Decolorizing

Practically all carbon (C.). Black, solid amorp. Sp. gr. 1.723-1.773. M.P. 3500+. Sublimes. Insol. Uses—mfr. printing inks, paint, enamels, varnishes, automobile tires, rubber goods, paper, pyrotechnics, crucible steel, stove and shoe polishes, phonographic records, bookbinder's board, black leathers, electrical insulators, buttons, carbon paper, typewriter ribbons, crayons, carriage cloth, cements, mortars and building stones, celluloid, tarpaulins, drawing stencil and marking inks; rubber pigment; process engraving; case hardening; absorbing poisonous gases. Grades—as to source, fineness, color.

Binney & Smith Co. Products

BLACKS
Blacks for Rubber
Micronex, Micronex W-6, Statex-K, Statex-R, Statex-B, Statex-M, Statex-93, Furnex
Blacks for Paints, Lacquers and Synthetics
Super-Spectra, Neo-Spectras, Superba, Excelsior, Neo-Spectra Beads, Superba Beads, Excelsior Beads, Raven Beads, Statex, Molacco, Coblaks, Globlaks, Coresinblaks, Covarnishblaks, Covinylblaks
Blacks for Inks
Peerless—Peerless Beads
Peerless Mark II—Mark II-A
Raven—No. 140 Black
Statex—Statex B-12, Statex K-12, Molacco
Blacks for Paper and Board
Paris, Paris No. 2
Statex-B Densed
Bone Blacks, Drop Blacks
IVO
Blacks for Water Paints
Colloidal Dispersions

CHARCOALS
Bone, Wood

MINERAL RUBBER

OXIDES OF IRON
Black, Brown, Red, Tan, Yellow

STEARIC ACID
Stearex

TALC
Domestic

BINNEY & SMITH CO.
Manufacturers, Exporters and Importers
41 East 42nd Street, New York 17, N. Y.
Foreign Offices:
Binney & Smith Co.
London House, New London St., E. C. 3,
113 Cannon St., E. C. 4 — London
8, Rue Meissonier — Paris
Chr. IX's Gade 10 — Copenhagen

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Huber, J M, Corp, 342 Madison Av, N Y — Murray Hill 7-6900
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919

CABOT

CARBON BLACKS

For Rubber	SPHERON Channel Blacks STERLING Furnace Blacks VULCAN Furnace Blacks
For News Inks	ELF Channel Blacks STERLING Furnace Blacks
For Halftone Inks	MOGUL, KALISTA, BLACK PEARLS A Long Flow Channel Blacks
For Paints, Varnishes, Lacquers, Plastics	CARBOLAC, MONARCH, SUPERCARBOVAR High Color Channel Blacks

+ OTHER CABOT PRODUCTS

Solvents, Softeners, Plasticizers, Frothing Agents, Charcoal, Natural Gas and Gasoline.

For Samples • Questions • Answers

GODFREY L. CABOT, INC.

77 Franklin Street, Boston 10, Massachusetts
518 Ohio Building, Akron 8, Ohio
Sales Representatives in All Principal Cities

HUBER

CARBON BLACKS

FOR RUBBER

Wyex	Easy Processing Channel Black
Arrow TX	Medium Processing Channel Black
HX	Hard Processing Channel Black
Essex	Semi-Reinforcing Furnace Black
Modulex	High Modulus Furnace Black
Aromex	High Abrasion Furnace Black

FOR INK

Aerfloted Arrow Carbon Black

J. M. HUBER CORPORATION

342 MADISON AVENUE, NEW YORK 17, NEW YORK

CARBON BLACK (cont'd)

Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†United Carbon Co, Inc, P O Box 1913, Charleston, W Va — Capitol 2-1161
Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Allan, Homer G, St. Louis, Mo
Commercial Chems, Inc, Buffalo, N Y
Eggleston, Wm D, Co, Cambridge, Mass
Hins, J H, Co, Cleveland, O
Hird & Connor, Inc, Boston, Mass
†Johnson, Charles Eneu, & Co, Phila, Pa
Martin Hoyt & Milne, San Fran, Calif
†Phillips Chem Co, Bartlesville, Okla
Tabler, Wm B, Co, Louisville, Ky
†Thermatomic Carbon Co, N Y
Van Waters & Rogers, Inc, Portland, Ore

United Blacks

FOR RUBBER

KOSMOBILE 77—	DIXIEDENSED 77	EPC
KOSMOBILE S-66—	DIXIEDENSED S-66	MPC
KOSMOBILE S—	DIXIEDENSED S	HPC
KOSMOS 60—	DIXIE 60	RF
KOSMOS 50—	DIXIE 50	FEF
KOSMOS 40—	DIXIE 40	HMF
KOSMOS 20—	DIXIE 20	SRF

FOR PAINTS

KOSMOVAR	KOSMOLAK
KOSMOS F4	DIXIE PERFECTO
KOSMOS BB	DIXIE 5

FOR INKS

KOSMOS I — DIXIE R

UNITED CARBON COMPANY, INC.

CHARLESTON, WEST VIRGINIA
NEW YORK • AKRON • CHICAGO • BOSTON
AND OTHER PRINCIPAL CITIES
CANADA: CANADIAN INDUSTRIES, LIMITED

Witco CARBON BLACKS

Channel and Furnace

Witco CARBON BLACKS in many grades are available to meet your processing requirements for rubber, paint, printing ink, plastics, paper, shoe polish, leather finishes, crayons, and other products.

WITCO CHEMICAL COMPANY

295 MADISON AVENUE • NEW YORK 17, NEW YORK

BOSTON • CHICAGO • HOUSTON • CLEVELAND
AKRON • LOS ANGELES • SAN FRANCISCO
LONDON AND MANCHESTER, ENGLAND

CARBON DIOXIDE (Acid Carbonic, Carbonic Gas, Dry Ice)

COs. Colorless, odorless gas. Also comes liq. form (colorless), and solid form (white snow-like). Sp. gr. Gas 1.53. Liq. 1.057. Solid 1.56. M.P. —45°C. B.P. —56°C. Sol. water. Uses—mfr. pure carbonates, ammonium sulfate, soda ammonium carbonates, salicylic acid, barium carbonate, pyrotechnics, carbonated beverages, hollow rubber ware, white lead, intermediates, organic chemicals, urea; general drying agent; gaseous distillation agent; anticaddising agent in extracting natural dyes; leavening agent in baking; as disinfectant; antioxidising agent and preservative in making, storing and shipping various products; "as snow" for keeping ice cream hard;



Manufacturers of Chemicals for Industry and Agriculture

Liquid Carbon Dioxide available in Cylinders

Spencer Chemical Co.

Executive & Sales Offices, Dwight Bldg., Kansas City 6, Mo.
Works, Pittsburg, Kans • Parsons, Kans. • Chicago, Ill.

CARBON DIOXIDE (cont'd)

for general refrigeration purposes; antiseptic preservative for meats and other foods; preventing dust explosions in flour mills; refrigerant in ice machines; fire extinguisher; shipping inflam. liqs.; refining sugar; packing tobacco; boiling out cotton and wool; extinction of fire in mines; cementation process in treating steel; preventing blow holes in castings; neutralizing agent in making glues and adhesives and in chemical processes; in coal tar distillation; laboratory reagent; solvent recovery; promoting growth of plants. Grades—pure liq. CO_2 99.5%; tech.

Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500
†Matheson Chem Corp, Matheson Bldg, Baltimore, Md	Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Nealco-Monsanto Co, Boston, Mass	Everett 7-5010
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Spencer Chem Co, 1004 Baltimore Av, Kansas City, Mo	Victor 2822
†Amer Oxygen Service Corp, Harrison, N J	Pure Carbonic Co, N Y

CARBON MONOXIDE

CO. M.W. 28. Colorless gas.

†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500

CARBON TETRACHLORIDE

DOW

THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products

Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.
See listing ad for other products

CARBON TETRACHLORIDE

JOHN A. CHEW
Incorporated
INDUSTRIAL AND FINE CHEMICALS
60 East 42nd Street, New York 17, N. Y. MU 2-0993

CARBON TETRACHLORIDE (Perchlormethane, Benzinoform, Tetrachlormethane)

CCl_4. Colorless, non-inflam. liq. peculiar odor. M.W. 153.8. Sp. gr. 1.595 (25°C.). Pounds gal., 13.28. M.P. —23°C. B.P. 76.0°C. V.D. (15°C.), lbs./cu. ft. 0.408. Latent heat of vap., B.T.U./lb. 83.7. S.H., cal/kg./°C. or B.T.U./lb./°F. 0.203 (25°C.). Sol. alcohol, benzene, ether, and most of the fixed oils; very slightly sol. water. Uses—mfr. leather, carbinol, chloroform, organic and intermediate chemicals, acetic anhydride, dyes, lacquers, paints, varnishes, dry colors, printing inks, linoleum, metal polishes, rubber cements; general solvent and extracting agent for waxes; resins, fats, oils, perfumes from flowers, paraffin, rubber, etc.; degreasing wool, cotton waste and bones in glue making; in dry cleaning; fire extinguisher; in cleansing compositions; rubberizing fabrics; rendering benzene uninflam.; laboratory reagent; recovering tallow and ceresin wax; preserving grain; in medicine. Grades—99.5% and better; low freezing (.50 deg. F.); C.P.; U.S.P.; tech.

INDUSTRIAL AND REAGENT CHEMICALS

CARBON TETRACHLORIDE
ACETONE
CHLOROFORM
TRICHLORETHYLENE
PERCHLORETHYLENE

CITY CHEMICAL CORP.
132 W. 22nd St. New York 11, N.Y. WA 9-2723

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Quinine Co, 15 William St, N Y	Hanover 2-7983
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650

CARBON TETRACHLORIDE (cont'd)

†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Coburn, C B Co, 63 Market St, Lowell, Mass	Lowell 9331
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
†Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262

INDUSTRIAL CHEMICALS

CARBON TETRACHLORIDE
TRICHLORETHYLENE
COTTON AND FILM SOLUTIONS
VINYL RESIN SOLUTIONS

Philipp Brothers Chemicals, Inc.
37 WALL STREET, NEW YORK 5, N. Y.
Cable Address: PHIBROCHEM NEW YORK
HARTFORD BOSTON PROVIDENCE
PHILADELPHIA BALTIMORE

Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900

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A Complete Line of
INDUSTRIAL CHEMICALS
AVAILABLE STOCKS IMMEDIATE DELIVERY
Acids, Alkalies, Solvents, Etc.
•FOR ELECTRO-PLATING HARDENING
•METAL WORKING DEGREASING
•OR ANY INDUSTRIAL OPERATION
REQUIRING CHEMICALS
PHILLIPS & JACOBS 622 Race Street Philadelphia 6, Pa.

CARBON TETRACHLORIDE (cont'd)

International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seldner & Ensquist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
★†Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200

CARBON TETRACHLORIDE
Technical and C.P.

TRICHLORETHYLENE
Technical Grade

TROMEX*
All-Metals Degreasing Solvent with Exclusive Westvaco Stabilizer-Inhibitor

CARBON BISULFIDE
SULFUR MONOCHLORIDE
ETHYLENE DIBROMIDE

*TM Reg. U.S. Pat. Off.

SEE BACK COVER FOR LIST OF WESTVACO CHEMICALS

Westvaco CHEMICALS

WESTVACO CHEMICAL DIVISION
FOOD MACHINERY AND CHEMICAL CORPORATION
GENERAL OFFICES • 405 LEXINGTON AVENUE, NEW YORK 17
CHICAGO, ILL. • CLEVELAND, OHIO • CINCINNATI, OHIO
ST. LOUIS, MO. • LOS ANGELES, CALIF. • NEWARK, CALIF.

Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

Ackerman, J C, Co, Pittsburgh, Pa
Black Hills Chem Co, Rapid City, S Dakota
Cascade Chem Co, Seattle, Wash
Collier, H C, & Sons, Binghamton, N Y
Commercial Chems, Inc, Buffalo, N Y
Dixo Co, Garfield, N J
Elk, B R, Co, Inc, Garfield, N J
Globe Chem Co, Cincinnati, O
Hughes Chem Supply Co, Inc, Baltimore, Md
Ideal Chem & Supply Co, Memphis, Tenn
Industrial Chem Co, Dayton, O
Marble-Nye Co, Worcester, Mass
Miller, Carl F, & Co, Inc, Seattle, Wash
Minnesota Chem Co, St Paul, Minn
Phipps & Bird, Inc, Richmond, Va
Pioneer Salt Co, Phila, Pa
Seidler Chem & Supply Co, Newark, N J
Slater-Robbins, Inc, Long Is City, N Y
Steidle Chem Co, Louisville, Ky
Superior Prods Co, Somerville, Mass
Western Chems, Inc, Portland, Ore
Wheeler, Reynolds & Stauffer, San Fran, Calif

CARBOXYMETHYL CELLULOSE (Sodium Carboxymethyl Cellulose, Sodium Cellulose Glycolate)

White to cream colored finely ground powder. Uses: detergency promoter; paper finish for resistance to grease and ink; warp size and finishing material; emulsifying agent; adhesive and binder in ceramics.

HERCULES

HERCULES* CMC

Water-soluble cellulose gum (sodium carboxymethylcellulose). Available in varying viscosity types in Purified and Technical Grades.

*Reg. U. S. Pat. Off. GM50-3

HERCULES POWDER COMPANY INCORPORATED
Wilmington, Delaware

CARBOXYMETHYL CELLULOSE (cont'd)

†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del	Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
†Hercules Powder Co, 978 Market St, Wilmington, Del	Gaspee 1-8466
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Murray Hill 2-8712
Merchants Chem Co, Inc, 60 E 42 St, N Y	Wyandotte 1700
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	

CARBOSE*
(Sodium Carboxymethyl Cellulose)

Wyandotte Carbose is designed specifically for detergent applications and a wide variety of other industrial uses requiring a low viscosity, rapidly soluble material.

In addition to its use in conjunction with soaps and synthetic detergents to effect a marked increase in carbon soil removal and whiteness retention on cottons, Carbose is extremely useful for improving the bursting strength of test liner as well as for giving various types of paper and paper board a superior finish which is resistant to penetration by inks and grease.

Carbose is of value as a warp size and finishing material in the textile industry.

Other applications include its use as a protective colloid, as an emulsifying agent and as an adhesive and binder.

*Reg. U. S. Pat. Off.

Samples and data available upon request.

Wyandotte
REG. U. S. PAT. OFF.

WYANDOTTE CHEMICALS CORPORATION
WYANDOTTE, MICHIGAN • OFFICES IN PRINCIPAL CITIES

Soda Ash • Caustic Soda • Bicarbonate of Soda • Calcium Chloride
Calcium Carbonate • Chlorine • Hydrogen • Dry Ice • Synthetic Detergents • Glycols • Carbose (Sodium CMC) • Ethylene Dichloride • Propylene Dichloride • Aromatic Sulfonic Acid Derivatives
Other Organic and Inorganic Chemicals

CARBROMAL

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Conway Prods Co, 510 6 Av, N Y	Oregon 5-2909
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7959
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Sumner Chem Co, Inc, 52 Wall St, N Y	Digby 4-3880

CARBROMAL (cont'd)

Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

SUMNER CHEMICAL

MANUFACTURERS OF

Acetyl Carbromal
Bromisovalerylurea
Carbromal
p-Hydroxypropiophenone

SUMNER CHEMICAL COMPANY, INC.

General Sales Offices:
52 Wall Street, New York 5, N. Y.

Plant: **Zeeland, Michigan**
Research Laboratories: **Elkhart, Indiana**

CAROTENE

$C_{18}H_{30}O$. M. W. 256.2. Pigment obtained from carrots, tomatoes, etc. Uses—principally in coloring of butter, cheese, etc.; as a food color.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1206
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660

†Barnett Labs, Long Beach, Calif

CARRAGHEEN EXTRACTS

†Algin Corp of Amer, N Y — †Burtonite Co, Nutley, N J

CARVACROL (2-Hydroxy-p-Cymene, Isopropyl-o-Cresol)

$C_{10}H_{14}O$. M.W. 150.21. Colorless or yellow liqoid, thymol-like odor. Uses: disinfectants.

Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570

CASEIN, EDIBLE

White to yellowish amorp. powder. Sp. gr. 1.259. Sol. alkalies, alkaline carbonates, acids. The raw material must be free from harmful ingredients and the product must be manufactured under conditions conforming with food and drug laws. Uses—special foods; baking pwrs; massage creams; cosmetics; pharmaceutical caseinates; adhesive in drinking straws and similar food containers; substitute for gelatin; albumen; clarifying wines. Graded according to use.

CASEIN

ALL GRADES *and other*
Chemicals, Solvents and Coal Tar Products

Republic Chemical Corp.
94 Beekman Street, New York 7
Cable Address: Jaynivrad

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Diehl, Wm, & Co, 330 W 42 St, N Y — Bryant 9-5211
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
†Sheffield Farms Co, Inc, Chemurgic Div, P O Box 630, Norwich, N Y — Norwich 915
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

Bunge, Alfred, Co, N Y — Superior Prods Co, Somerville, Mass

★ casein ★

American-British Chemical Supplies, Inc.
180 MADISON AVE. NEW YORK 16, N. Y.

CASEIN, INEDIBLE

White to yellowish amorp. powd. Sp. gr. 1.259. Sol. alkalies, alkaline carbonates, acids. Uses—mfr. casein cold water paints and varnishes, waterproofed paints and distempers, paint removers, water-resistant glues and adhesives, shoe polishes, synth milk linoleum, pharmaceutical caseinates; mordant in dyeing and printing textiles; printing paste thickener; loading and softening silks and cottons; producing high gloss on fabrics; finishing and dressing leather; substitute for gelatin, albumen, shellac, gums, etc.; for various purposes; in celluloid and other plastics; rubber compounds; hard rubber; soaps; photographic films; priming artist's canvas; insulating compositions; bottle sealing compositions; adhesive thickener in insecticides; filler; binder in cork compositions and other plastics; glazing casts. Graded according to use.

HERCULES

CASEIN
(Acid and Rennet)
For paper coating, adhesives, cold-water paints and plastics.
GM50-3

HERCULES POWDER COMPANY INCORPORATED
Wilmington, Delaware

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Avnet Co, 1530 Spring Garden St, Phila, Pa — Locust 4-2400
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Diehl, Wm, & Co, 330 W 42 St, N Y — Bryant 9-5211
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y — Hanover 2-3750
†Hercules Powder Co, 978 Market St, Wilmington, Del
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
†National Casein Sales, 601-619 W 80 St, Chicago, Ill — Vincennes 6-7300

Casein ALL GRADES

- SULPHURIC
- MURIATIC
- LACTIC
- RENNET

NATIONAL CASEIN SALES
601 West 80th St., Chicago 20

NATIONAL CASEIN COMPANY
Broad & Fulton Sts., Riverton, N.J.

CASEIN, INEDIBLE (cont'd)

Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
†Sheffield Farms Co, Inc, Chemurgic Div, P O Box 630, Norwich, N Y	Norwich 915
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
†Adler, A, & Son, Phila, Pa	Houghton, Philip A, Inc, Boston, Mass
Baker & Gaffney, Phila, Pa	Inco Trading Co, N Y
Bunge, Alfred, Co, N Y	†Western Condensing Co, Appleton, Wis

CASEIN

Four Grades of Muriatic Acid Type

"NEW PROCESS" . . . . . Quality, Uniform Industrial Grade.
"HIGH pH" . . . . . For Emulsions, including Latex.
"HIGH NITROGEN" . . . More free of Non-protein Impurities.
"DE-VITAMINIZED" . . . . . The Vitamin-free Grade, Edible.

ALSO EDIBLE FORMS OF MILK PROTEINS

SHEFFIELD FARMS COMPANY, INC.
CHEMURGIC DIVISION
Main Office: Norwich, N. Y. Branch Sales Office: 524 W. 57th St., New York 19, N. Y.
Div. of National Dairy Products Corp.

CASTOR BEAN (Ricinus, Mexico Seed)

Seeds of Ricinus communus. Habitat: East and West Indies, Southern Europe, Africa, U. S. Uses—source of castor oil. Grades—tech.

Dalton-Cooper Inc, 200 W 34 St, N Y	Longacre 4-2910
Grace, W R, & Co, 7 Hanover Sq, N Y	Whitehall 4-1200
Parker, Herbert H, 2 Bway, N Y	Whitehall 4-7996
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Wah Chang Corp, 233 Bway, N Y	Cortlandt 7-0887
Fidelity Trading Co, Inc, San Fran, Calif	Neal, L W, Phila, Pa

CASTOR OIL ACETYLATED

$(C_6H_{10}$-CH(OOCOCH$_3$)-CH$_2$CH$^=$(CH$_2$)$_7$COO)$_3C_3H_5$. M.W. 1058. Bright, clear, straw-colored liquid. Uses: plasticiser; ingredient of hydraulic fluids.

†Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500
Poole, J R, Co, Boston, Mass	

CASTOR OIL BLOWN (Oxidized Castor Oil)

Viscous liquid to jelled solid. Uses: plasticiser; ingredient of coating compositions; hydraulic brake fluids; caulking and gasket compounds.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker Caster Oil Co, 119 Bway, N Y	Digby 9-0500
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Dee & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Neal, L W, Phila, Pa	Zimmerman, C L, Co, Cincinnati, O
Poole, J R, Co, Boston, Mass	

THE
BAKER CASTOR OIL COMPANY

REFINED CASTOR OILS
PROCESSED CASTOR OILS (BLOWN)
ACETYLATED CASTOR OILS
GELLED CASTOR OILS

120 Broadway, New York 5, New York
Chicago, Illinois — Los Angeles, California

CASTOR OIL PROCESSED

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
†Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg 5-2151
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
†Drew, E F, & Co Inc, 15 E 26 St N Y	Murray Hill 6-2800
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-9687
Kali Mfg Co, 427 Meyer St, Phila, Pa	Regent 9-2370
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541
†Woburn Chem Corp, Harrison, N J	Kearny 2-3300
Neal, L W, Phila, Pa	Woodward & Dickerson, Inc, Phila, Pa
Poole, J R, Co, Boston, Mass	Zimmerman, C L, Co, Cincinnati, O

CASTOR POMACE (Castor Meal)

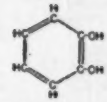
Residue after oil has been removed from castor beans by pressure. Average analysis: ammonia, 5 to 8%, phosphoric acid 1 to 1.5%, potash 1 to 1.5%. Uses—for various fertilizer purposes.

†Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Jackle, Frank R, N Y	Neal, L W, Phila, Pa
Jett, Joseph C, Norfolk, Va	Wilson Brokerage, N Y
McIver, Alex M, & Son, Charleston, S C	

CATECHOL—see PYROCATECHOL

KOPPERS
CATECHOL
(Pyrocatechol)

GRADES AVAILABLE:
Resublimed;
C.P. Crystals



USES:
In preparation of dyestuffs and medicinals; in photography; as an oxygen-removal agent; in specialty inks; in the production of antioxidants for rubber and lubricating oils.

KOPPERS COMPANY, INC.
Chemical Division, Pittsburgh 19, Pa.

CEDROL (Sesquiterpene Alcohol)

$C_{15}H_{25}OH$. Crystals. Uses: cedarwood, fixative.

†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

CELLULOSE ACETATE (Acetyl Cellulose)

a. $C_6H_7(COOCH_3)_3$ or b. $C_6H_8O(COOCH_3)_2$ or c. $C_6H_7O_5(COOCH_3)_3$. White, solid, amorp. a. Sol. alcohol. Insol. water. b. Insol. water. c. Insol. water, alcohol, ether. Sol. chloroform, glacial acetic acid, nitrobenzene. Uses: mfr. rayon, airplane dopes, lacquers, varnishes, non-inflam. photographic and moving picture films, rubber compositions, non-shatterable glass, phonographic records, non-inflam. plastics; rendering linens non-inflam.; insulating wires and other electrical parts; sizing and finishing material; coating glass to prevent precipitation of moisture; fireproofing leather; increasing lustre of pearls, molding compositions. Grades—tech.

Cellulose Acetate Solutions
Cellulose Acetate Butyrate Solutions
Nitrocellulose Solutions

Filtered solutions of cellulose esters in a wide range of viscosities for formulation into lacquers.

EASTMAN KODAK COMPANY, Rochester 4, N. Y.
Cellulose Products Division

CELLULOSE ACETATE (cont'd)

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Rayon Dept), Wilmington, Del — Wilmington 4-5121
†Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
†Hercules Powder Co, 978 Market St, Wilmington, Del
★†Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
†Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
†United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686

†Amer Molding Powder & Chem Corp, Bklyn, N Y
Amer Prods Mfg Co, New Orleans, La
Amer Pyroxylin Corp, Arlington, N J
Bamberger, A, Corp, Bklyn, N Y
†Blum, Paul, Co, Buffalo, N Y

CELLULOSE ACETATE BUTYRATE

White amorphous solid. Uses: production of molding compositions; formulation lacquers, protective coatings.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
†United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686

Amer Pyroxylin Corp, Arlington, N J

CELLULOSE ACETATE LACQUER (Plastics Coatings Lacquer)

Clear or colored liquids, complex composition. Uses: coating molded cellulose acetate plastics to prevent surface tackiness in humid weather.

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412

†Amer Prods Mfg Co, New Orleans, La

CELLULOSE ACETATE PROPIONATE

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

CELLULOSE, CHEMICAL COTTON

†Hercules Powder Co, 978 Market St, Wilmington, Del
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

CELLULOSE FLOCK

White, ground-up paper. Uses—filler for compositions such as plastics; other uses similar to paper flock but where color uniformity is specified.

Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Bamberger, A, Corp, Bklyn, N Y

CELLULOSE NITRATE (Nitrocellulose)

The esters of cellulose and nitric acid. (tri) $(C_{12}H_{17}O_7(NO_3)_3$. M.W. 459.16. (tetra) $(C_{12}H_{16}O_6(NO_3)_4$. M.W. 504.16. Both esters are white amorphous masses. Density 1.66. Insol. ordinary solvents, sol. absolute alcohol, glacial acetic acid. Uses—principal constituent of collodion. (penta) $C_{12}H_{15}O_5(NO_3)_5$. M.W. 549.16. Density about 1.66. Insol. alcohol, benzene, ether, sol. mixt. alcohol or ether-(hexa) $C_{12}H_{14}O_4(NO_3)_6$. M.W. 594.16. Uses—principal constituent of guncotton; mfr lacquers. Is a white amorphous substance, density 1.66, ignites about 160°C. Insol. in ordinary solvents.

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Hercules Powder Co, 978 Market St, Wilmington, Del
★†Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Amer Pyroxylin Corp, Arlington, N J
Warren-Douglas Chem Co, Inc, Omaha, Neb

CELLULOSE, SHEET & BULK

†Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000

Amer Prods Mfg Co, New Orleans, La
Amer Pyroxylin Corp, Arlington, N J
†Blum, Paul, Co, Buffalo, N Y

CERESINS, SYNTHETIC

Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
★†Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
Will & Baumer Candle Co, Inc, Park St, Syracuse, N Y — Syracuse 2-0411
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383

CERIC SALTS

Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

Chem Commerce, Newark, N J

CHEMICALS — GFS PEER-CHEMICAL PRODUCTS — APPARATUS

CERIC AND CEROUS COMPOUNDS

The G. Frederick Smith Chemical Company
COLUMBUS, OHIO

VERITAS TAMETSI CAELA CALDANT

CERIUM (Metal)

Ce. Rare earth element, iron-gray, ductile, malleable metal. Sp. gr. 6.90. M.P. 640° C. Uses—mfr. of cerium compounds. Grades—Mischmetall; cerium metallic commercial; cerium metallic pure.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

†Cerium Metals Corp, N Y
Metallurg, Inc, N Y
Var-Lac-Old Chem Co, N Y

CERIUM HYDROXIDE

Ce $(OH)_3$. mol. wt. 191.15; white, gelatinous ppt.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
†Maywood Chem Wks, 100 W Hunter Av, Maywood N J — Hackensack 2-2020
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

CERIUM NAPHTHENATE

†Maywood Chem Wks, 100 W Hunter Av, Maywood N J — Hackensack 2-2020
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

CERIUM NITRATE

Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
†Maywood Chem Wks, 100 W Hunter Av, Maywood N J — Hackensack 2-2020
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

Var-Lac-Old Chem Co, N Y

CERIUM OXALATE (Cerous Oxalate, Ceril Oxalas)

$Ce_2(C_2O_4)_3 9H_2O$. Pinkish powd. or cryst., odorless. Decomposes on heating (200°C.). Sol. alcohol, dilute H_2SO_4 or HCl. Uses—mfr. incandescent gas mantles; isolation of metals of cerium group; in medicine. Grades—U.S.P.; commercial.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Maywood Chem Wks, 100 W Hunter Av, Maywood N J — Hackensack 2-2020
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

CERIUM OXIDE (Ceric Oxide, Cerium Dioxide)

CeO_2. M.W. 172.13. Light yellow powd. Sp. gr. 7.3. M.P. 1950°C. Sol. nitric acid, sulfuric acids. Uses—mfr. ceramic glazes, incandescent gas mantles. Grades—tech.; C.P.

Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
†Maywood Chem Wks, 100 W Hunter Av, Maywood N J — Hackensack 2-2020
Rosenthal-Barcow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7900
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

Cerium Metals Corp, N Y
Fay-Cole & Co, Inc, Boston, Mass
Mackay, A D, Inc, N Y
Var-Lac-Old Chem Co, N Y

CEROUS SALTS

Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

Chem Commerce, Newark, N J

CETYL BROMIDE

$C_{16}H_{33}Br$. M.W. 305.35. Yellowish liquid. Insol. water; sol. organic solventa. Uses: anionic surface-active agents, pharmaceutical intermediate.

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C 2-7419
†Dow Chem Co, Midland, Mich Midland 500
†Halogen Chems, Inc, 616 King St, Columbia, S C 7125
La Bue, Philip J, Co, 230 Park Av, N Y Murray Hill 9-0060
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J Rutherford 2-9500

CETYL CHLORIDE (Hexadecyl Chloride, 1-Chlorohexadecane)

$C_{16}H_{33}Cl$. M.W. 260.9. Clear colorless liquid. Uses: source of cetyl group in organic syntheses.

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C 2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C 7125
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J Rutherford 2-9500

CETYL DIMETHYL BENZYL AMMONIUM CHLORIDE

$C_{16}H_{33}(CH_3)_2C_6H_5CH_2NCl$. M.W. 396.5. White, semi-crystalline powder. Sol. water. Uses: germicide.

†Consolidated Midland Corp, Katonah, N Y Katonah 1010
†Fine Organics, Inc, 211 E 19 St, N Y Gramercy 5-1030
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J Bergen 4-1700
†Winthrop-Stearns Inc, 1450 Bway, N Y La 4-6400

National Biochemical Co, Chicago, Ill

CETYL DIMETHYL ETHYL AMMONIUM BROMIDE

†Consolidated Midland Corp, Katonah, N Y Katonah 1010
†Fine Organics, Inc, 211 E 19 St, N Y Gramercy 5-1030
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J Bergen 4-1700

CETYL IODIDE

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C 2-7419
†Consolidated Midland Corp, Katonah, N Y Katonah 1010
†Halogen Chems, Inc, 616 King St, Columbia, S C 7125
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J Rutherford 2-9500

CETYL PYRIDINIUM BROMIDE

†Consolidated Midland Corp, Katonah, N Y Katonah 1010

National Biochemical Co, Chicago, Ill

CETYL PYRIDINIUM CHLORIDE

†National Biochemical Co, Chicago, Ill

CETYL TRIMETHYL AMMONIUM BROMIDE

$C_{16}H_{33}(CH_3)_3NBr$. M.W. 326. White powder. Sol. water, organic solventa. Uses: disinfectant, textile finishing agent.

†Fine Organics, Inc, 211 E 19 St, N Y Gramercy 5-1030
La Bue, Philip J, Co, 230 Park Av, N Y Murray Hill 9-0060
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J Bergen 4-1700

†National Biochemical Co, Chicago, Ill

CHALK—see also Calcium Carbonate, and Whiting

Light-colored, amorp., solid, consisting mainly of $CaCO_3$ (calcium carbonate). Natural. Sp. gr. 1.9-2.8. Contains delicate skeletons of marine animals. Sol. acids. Uses—see calcium carbonate. Grades—crude; refined; light and heavy precipitated U.S.P.; dropped U.S.P.; English; Italian; French; domestic.

†Binney & Smith Co, 41 E 42 St, N Y Murray Hill 2-1960
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill Seeley 8-2712
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y Barclay 7-2151
Coburn, C B.Co, 63 Market St, Lowell, Mass Lowell 9331
Doggett, Stanley, Inc, 75 Varick St, N Y Walker 5-1051
Goris and Co, 8124 S Hoyne Av, Chicago, Ill Triangle 4-6200
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y Murray Hill3-8350
Hammill & Gillespie, Inc, 225 Bway, N Y Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass Norwood 7-3113
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill Superior 4365
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y Murray Hill 7-3600
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y Beekman 3-3162
Salemon, L A, & Bro, 216 Pearl St, N Y Whitehall 3-0817
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y Main 5-0567
Wagner, Charles A, Co, Inc, 813 Caltwhill St, Phila, Pa Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y Walker 5-3749

†Williams, C K, & Co, E St Louis, Ill Winther, S A, & Co, Inc, San Fran, Calif

CHARCOAL (Wood Charcoal, Vegetable Charcoal—see also Bone Black)

Black, amorp. solid. Sp. gr. 1.75-2.10. Sublimes at 3600°C. Insol. all common solvents, acids, alkalies. Uses—mfr. calcium carbide, charcoal iron, military gas masks, arc light electrodes, crayons, heating insulating compositions, paint colors, candle wicks; pigment colors, paints, glass, black powd., nitroglycerin and nitrocellulose explosives; chemical catalyst; general decolorizing and filtering medium in chemical processes; precipitant in chemical processes; volatile solvent absorbent; gas absorbent in cold storage, absorbent gas, casing-head gasoline and perfume products; decolorizing and deodorizing fats and oils; purifying water and deodorizing sewage; deodorant in breweries; case-hardening steel; fuel in forges; soil disinfectant; laboratory reagent; in refining alcohol and sugar; horticulture; poultry farming. Grades—Wood (willow, oak, pine, etc.) sticks; lump; powdered; tech.; U.S.P.; animal (bone black); powdered.

CHARCOAL (cont'd)

†Baker, J T, Chem Co, Phillipsburg, N J Phillipsburg, 5-2151
Binney & Smith Co, 41 E 42 St, N Y Murray Hill 2-1960
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass Liberty 2-1870
Coburn, C B.Co, 63 Market St, Lowell, Mass Lowell 9331
Denver Fire Clay Co, 2301 Blake St, Denver, Colo Tabor 0251
†Fine Organics, Inc, 211 E 19 St, N Y Gramercy 5-1030
Goris and Co, 8124 S Hoyne Av, Chicago, Ill Triangle 4-6200
Gumpert, E, Corp, 75 West St, N Y Whitehall 4-9199
Howe & French, 99 Broad St, Boston, Mass Hancock 5910
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y Murray Hill 7-3600
Merchants Chem Co, Inc, 60 E 42 St, N Y Murray Hill 2-8712
Newberg, Wm D, Co, Inc, 420 Lexington Av, N Y Oregon 9-2550
Paige, Chas, & Co, Inc, 50 E 42 St, N Y Vanderbilt 6-0903
Phillips & Jacobs, 620-22 Race St, Phila, Pa Walnut 2-3653
Republic Chem Corp, 94 Beekman St, N Y Rector 2-9810
Richards, H N, Co, 1475 Prospect St, Trenton, N J 3-4186
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y Murray Hill 3-7500
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y Main 5-0567
†Tennessee Prods & Chem Corp, Nashville, Tenn Nashville 5-8333

Bonewitz Chems, Inc, Burlington, Iowa
Cliffs Dow Chem Co, Marquette, Mich
Dieckmann, Jr, J H, San Fran, Calif
Mine & Smelter Supply Co, Denver, Colo
Wilson, T C, Co, San Fran, Calif

busy executives

need

Chemical Industries

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CHARCOAL (Activated)

Form of carbon having a high adsorptive capacity for foreign molecules. Extent of adsorptive power depends upon size of capillaries of the charcoal and the size and chemical properties of the molecules to be adsorbed. Den.—when free from impurities is about 2.1. Chemical composition varies with source, may range from 10%-98% carbon. Uses—air purification by removal of gases; decolorizing; catalysts; gas-mask-canister filling; production of high vacuum; medical remedy for colic and diarrhea; as germicide; solvent recovery; gasoline recovery from natural gas; benzene recovery from manufactured gas.

CHARCOAL (cont'd)

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Darco Corp, 60 E 42 St, N Y	Vanderbilt 6-1730
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Gumport, E, Corp, 75 West St, N Y	Whitehall 4-9199
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Newberg, Wm D, Co, Inc, 420 Lexington Av, N Y	Oregon 9-2550
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Rosenthal-Barcow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817

Dieckmann, Jr, J H, San Fran, Calif

AMEND

DRUG & CHEMICAL CO., Inc.

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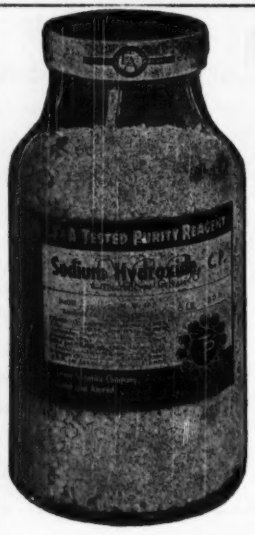
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†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J	Prescott 7-5805
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Maywood Chem Wks, 100 W Hunter Av, Maywood N J	Hackensack 2-2020
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Michigan Chem Corp, St Louis, Michigan	41

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Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818

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†Sumner Chem Co, Inc, 52 Wall St, N Y	Digby 4-3880
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Acete Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Photo Prods Dept), Wilmington, Del — Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

†Elk, B R, Co, Inc, Garfield, N J
Phipps & Bird, Inc, Richmond, Va
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Natural product obtained by bleaching bark of Castanea sativa. Uses—tanning leather; mordant in dyeing and printing textiles. Grades—ordinary; clarified; treated; 25% tan, 60% tan; liq.; powd.

Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Trask, Arthur C, Co, Chicago, Ill

CHINIOFON

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

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†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Michigan Chem Corp, St Louis, Michigan — 41
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

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Organic Chemicals Division
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Amer Raland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Pure Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

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$C_6H_5SO_2NClNa$. M.W. 213.56. White crystals. Uses: germicidal agent, textile desizing agent, oxidizing agent, deodorizing agent; for modifying starch and metal treatment.

†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

CHLORAMINE T, Di- (N-Dichloro-p-toluenesulfonamide)

$CH_3C_6H_4SO_2NCl_2$. M.W. 240.04. Pale, yellowish crystals or powder. M.P. 83° C. Soluble in water and most organic solvents.

†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

CHLORAMINE-T, N.F.

Specifications: White or faintly yellow crystals; solubility in water (2:15), complete; free alkali (as NaOH), 0.07-0.15%; active chlorine, 12.25-12.60%; assay, 97.3% min. Mesh: Retained on 10 mesh, trace max.; on 35 mesh, 1.0-7.0%.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.

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$CH_3C_6H_4SO_2NClNa.3H_2O$. M.W. 281.62. White, crystalline powder. Uses—antiseptic and germicide.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

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$C_{10}H_6Cl_8$. M.W. 1141. Viscous liquid. Sol. aliphatic, aromatic, chlorinated hydrocarbons, most ethers, esters. Uses: insecticide.

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Chapman Chem Co, Dermon Bldg, Memphis, Tenn — 37-8316
†Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Dow Chem Co, Midland, Mich — Midland 500
Fassy & Bestheff Inc, 325 Spring St, N Y — Worth 4-8585
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Michigan Chem Corp, St. Louis, Michigan — 41
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Powell, John, & Co Inc, 1 Park Av, N Y — Murray Hill 5-1770
†Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
†Velsicol Corp, 330 E Grand Av, Chicago, Ill — Delaware 7-7585

†Hyman, Julius, & Co, Denver, Colo — Steele, Ben P, Co, N Y

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Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

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70% Chlorine

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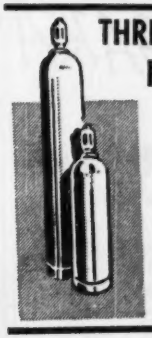
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†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Hercules Powder Co, 978 Market St, Wilmington, Del — 6655
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Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Quinine Co, 15 William St, N Y — Hanover 2-7985
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9351
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121

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Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y	6655
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y	Caledonia 81
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919

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Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland	
Niagara Alkali Co, 60 E 42 St, N Y	Murray Hill 2-8090
Opalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa	McKeesport 4-4278
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811

CHLORINE (cont'd)

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

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WHitehall 4-0007

†Brown Co, Portland, Maine
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Central O-B Prods Co, Inc, Buffalo, N Y
Duso Chem Co, Inc, Poughkeepsie, N Y
Empire Chem Corp, N Y
Pedigan, E J, Inc, Pittsburgh, Pa
Great Lakes Chem Co, Chicago, Ill
Hampden Color & Chem Co, Springfield, Mass
Herbert Chem Co, Cincinnati, O
†Hyman, Julius, & Co, Denver, Colo
Lyon Chems, Inc, St Paul, Minn
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio
Pioneer Salt Co, Phila, Pa
Rodgers Chem Co, Inc, Pittsburgh, Pa
Sergeant, E M, Pulp & Chem Co, Inc, N Y
†Southern Alkali Co, N Y
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Apopka, Florida, Houston 2, Texas, North Portland, Oregon, Weslaco, Texas
For address of nearest branch office and complete list of our other products see our Catalog ad.

CHLORINE DIOXIDE

ClO_2. M.W. 67.46. Reddish yellow irritating gas. Vapor density, approx. 2.4. Uses: taste and odor control; water purification; bleaching fats and oils, pulp, flour; oxidizing agent.

CHLORINE
IN TANK CARS
Wyandotte
REG. U. S. PAT. OFF.
WYANDOTTE CHEMICALS CORPORATION
WYANDOTTE, MICHIGAN • OFFICES IN PRINCIPAL CITIES
Soda Ash • Caustic Soda • Bicarbonate of Soda • Calcium Chloride
Calcium Carbonate • Chlorine • Hydrogen • Dry Ice • Synthetic Detergents • Glycols • Carbose (Sodium CMC) • Ethylene Dichloride • Propylene Dichloride • Aromatic Sulfonic Acid Derivatives
Other Organic and Inorganic Chemicals

CHLORINE DIOXIDE (cont'd)

†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Opalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa — McKeesport 4-4278

CHLOROACETAMIDE

†Dow Chem Co, Midland, Mich — Midland 500

o-CHLORO-ACETOACETANILIDE

$CH_3COCH_2CONHC_6H_4Cl$. M.W. 211.65. White, crystalline solid. M.P. 107°C. Insol. in water. Uses—mfr. azo dyes, including Hansa colors; intermediate in organic synthesis.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

CHLOROACETONE

CH_3COCH_2Cl. Chloroacetone contains an active ketone group and an extremely reactive chlorine atom. It finds application in the synthesis of many products such as pharmaceuticals, dyes, and other organic compounds. For example, Chloroacetone reacts readily with amines to form acetonyl-amines, with glycols to form chlorodioxolanes, with mercaptans to form sulfides or sulfur ethers, and with potassium formate to form acetol. Its purity is 85% to 90%, the remainder consisting almost entirely of unsymmetrical dichloroacetone. Chloroacetone is a very powerful lachrymator and will blister the skin on contact. Adequate precautions should therefore be taken in handling this product. Properties: Boiling point, 119°C. at 760 mm. of mercury (pure material). Flash point, 42.2°C. (108°F.). Sp. gr., 1.165 at 20°C./20°C. Weight per U.S. gallon, 9.69 lbs. at 68°F. Refractive index, 1.4324 at 20°C. Coefficient of cubical expansion, 0.00110 per °C., 0.00061 per °F. Odor, strong, irritating (lachrymatory).

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877

CHLOROACETOPHENONE (Phenacyl Chloride)

$C_6H_5COCH_2Cl$. M.W. 154.51. M.P. 59° C. Moisture less than 0.2%. Light brown crystalline solid. Uses—tear gas in cartridges, grenades and candles. Effective in concentrations as low as one part in three million of air. Grades—tech.

†Dow Chem Co, Midland, Mich — Midland 500

CHLOROACETYL CHLORIDE

$CH_2ClCOCl$. M.W. 112.9. Clear, colorless liquid with sharp odor. Very irritating to eyes and mucous membranes. Sp. gr. 1.495 at 0/4°. Weight per gal. 12.5 lbs. at 0°C. B.P. 105.0 to 106.0°C. Decomposes in water and alcohol. Uses—mfr. chloracetophenone; in organic syntheses.

†Dow Chem Co, Midland, Mich — Midland 500

m-CHLOROANILINE

C_6H_6NCl. M.W. 127.5. Clear, light yellow liquid. Dist. Range, 228.0°-231.0°C. Dry point (95% within 1.0°C.). Cryst. point, approx. —10°C. Weight per gal. 10 lbs. Uses: mfr. dyestuffs, pigments. Metachloraniline finds application both direct, and when diazotized, as fast orange bases and salts. Used as an intermediate in the preparation of Anthosin Violet and Azo Brilliant Reds, Permanent Orange R. and Helio Orange GL. Ship. Reg.—Poison (label required). Ship. Classification—dye intermediate.

†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

o-CHLOROANILINE

C_6H_6NCl. M.W. 127.54. Light amber-colored liquid. Crystallizing point -4.5°C. minimum. Sol. dilute HCl. Distillation range 206.5°C. to 211.5°C. (96% within 3°C.). Weight per gal. 10 lbs., approx. Uses—intermediate for dyes.

†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

p-CHLOROANILINE

C_6H_6NCl. M.W. 127.5. Yellowish white solid. Dist. Range—229.0°C. to 230.0°C. (95% within 1.5°C.). Weight per gal.—11 lbs. approx. Uses—in the mfr. of chemlin yellow dyes. Ship—class; dye intermediate. Ship reg., poison (label required).

Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2953
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

CHLOROANISIDINE (1-Methoxy-2-Amino-4-Chlorobenzene, 4-Chloro-2-Amino-Anisole)

$ClC_6H_3(OCH_3)NH_2$. M.W. 157.5. Gray crystalline solid. M.P. 83° C. Uses: dye intermediate.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
†Matheson Co, Inc, 357 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

beta-CHLOROANTHRAQUINONE

$C_6H_4:(CO_2):C_6H_3Cl$. M.W. 242.51. Tan powd. M.P. 208°C. Sol. hot organic solvents and sulfuric acid; insol. water. Uses—dyestuff intermediate. Grades—tech.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000

o-CHLOROBENZALDEHYDE

C_7H_5OCl. M.W. 140.5. Clear, colorless liquid of characteristic aromatic odor. F.P. about 9°C. B.P. at 760 mm., about 212°C. Sp. gr. 1.245 at 25°C. Uses: dye intermediate; for organic synthesis, and in the plastics trade.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

p-CHLOROBENZALDEHYDE

C_7H_5OCl. M.W. 140.5. White crystalline solid. B.P. about 214° C. Freezing point 44° C. Uses—as intermediate for dyes; organic synthesis and as raw material for plasters and resins.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

CHLOROBENZOL

†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

5-CHLOROBENZOTRIAZOLE

†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

o-CHLOROBENZOTRICHLORIDE

$C_7H_4Cl_4$. M.W. 231. White solid. M.P. 23.4°C. Uses—dye intermediate; in organic synthesis.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

p-CHLOROBENZOTRICHLORIDE

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

o-CHLOROBENZOYLCHLORIDE

$C_7H_4OCl_2$. M.W. 176. Colorless liquid. Boiling range at 760 mm., about 118°. F.P. about —6°C. Uses—dye intermediate; for organic synthesis.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

p-CHLOROBENZOYL CHLORIDE

$C_7H_4OCl_2$. M.W. 176. Colorless liq. or white crystalline solid. B.P. about 222° C. Freezing point about 16° C. Uses—as dye intermediate and for organic synthesis.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

o-CHLOROBENZYL CHLORIDE

$Cl.C_6H_4.CH_2Cl$, M. W. 161.03. Crystalline form—needles. Melting Point 29°C. Insol. in water. Uses—quartenary ammonium compounds, chlorobenzylating agents.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

p-CHLOROBENZYL CHLORIDE

$ClC_6H_4CH_2Cl$. M.W. 161.03. A clear liquid. Sharp odor. B.P. 213-214°C. Uses—intermediate mfr. of dyes, medicinals, esters.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

CHLOROBROMOMETHANE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
†Michigan Chem Corp, St Louis, Michigan — 41

CHLOROBUTANOL (Chloretone, Acetone Chloroform, tertiary trichlorobutyl alcohol)

$C\ Cl_3\ (CH_3)_2\ COH$. M.W. 177.47. White crystals. Sol. organic solvents. Uses—medicine.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Girsudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

Fine Chemicals = BPC =

CHLORBUTANOL

BENZOL PRODUCTS CO.
237 SOUTH STREET NEWARK 5, N. J.

CHLOROBUTANOL (cont'd)

†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
†Stanetal Corp, Linden, N J

CHLOROCRESOL (Chlormetacresol)

$C_6H_3CH_3.OH.Cl$. White crystalline powd. B.P. 236°C. Sol. alcohol, benzene, chloroform. Uses—mfr. oxymonoazo dyes, parachlormetacresol dyes; preservative glue pastes and inks; disinfectant.

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550

CHLORO-m-CRESOL (Chloroxymethylbenzene)

$C_6H_3CH_3.OH.Cl$. White crystalline powd., cresol odor. B.P. 236°C. Sol. alcohol, benzene, chloroform. Uses—mfr. oxymonoazo dyes, parachlormetacresol $CH_3C_6H_2Cl.[4].HO$ dyes; preservative glue pastes and inks; as disinfectant.

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800

p-CHLORO-m-CRESOL

C_7H_7OCl. M.W. 142.53. Colorless crystals, phenolic odor. Sol. organic solvents. Insol. water. M.P. 46° C. B.P. 196° C. Use—antiseptic preparations.

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

2-CHLOROCYCLOHEXANONE

$C_6H_9O(Cl)$. M.W. 131.50. Colorless liquid; sharp odor. Uses: organic syntheses, insecticides

†Farchan Research Labs, 609 E 127 St, Cleveland, O — Glenville 1-8749

1-CHLORO-2,2-DIFLUOROPROPANE

†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

CHLOROFORM
(U.S.P. and Technical)
DOW
THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products
Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.
See listing ad for other products

CHLOROFORM (Trichloromethane, Formyl Trichloride, Methenyl Trichloride)

$CHCl_3$. M.W. 119.38. Colorless, volatile liq., characteristic odor. Pounds/gal., 12.52. Sp. gr. 1.5025 (15.5°/4°C.). M.P. 63.2°C. B. P. 61.20°C. V.D. (15°C.), lbs./cu. ft., 0.315. Latent Heat of Vap., B.T.U./lb., 106.4 S.H., cal./kg./°C. or B.T.U./lb./°F., 0.234 (20°C.). Sol. alcohol, ether. Slightly sol. water. Uses—mfr. dyes, derived pharmaceuticals; solvent for extracting essential oils; fatty oil, rubber and gutta percha solvent; dissolving resins and alkaloids; fire extinguishing liquids to lower freezing point; cleansing delicate fabrics and fine garments. Grades—C.P.; U.S.P.; tech.

Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230

CHLOROFORM (cont'd)

Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Chaplain & Bibbo, 75 West St, N Y	Bowling Green 9-5636
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Dow Chem Co, Midland, Mich	Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Newberg, Wm D, Co, Inc, 420 Lexington Av, N Y	Oregon 9-2550
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

†Brown Co, Portland, Maine — Slater-Robbins, Inc, Long Is City, N Y

CHLOROFORM
U.S.P. AND TECHNICAL

CHEMICAL DIVISION
McKESSON & ROBBINS, INC.
155 EAST 44th STREET • NEW YORK 17, N.Y.
★ Offices in All Principal Cities ★

CHLOROHYDROQUINONE (Adurol, 2-Chloro-1,4-dihydroxybenzene)

$C_6H_3(OH)_2Cl$. M.W. 144.56. White to tan fine crystals. Melting Range 94-97°C. B.P. 263°C. Sol.-water, alcohol, ether, hot chloroform. Uses: photographic developer; organic syntheses.

†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919
Hunt, Philip A, Co, Palisades Park, N J	Leonia 4-4000
†Zimsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y	Hastings 5-3000

Wholesale Supply Co, Los Angeles, Cal

CHLORO-IODO-OXYQUINOLINE

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J	Prescott 7-5805
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

alpha-CHLORONAPHTHALENE

A chlorinated naphthalene. See monochlornaphthalene for properties and uses. Alphachlornaphthalene is a product usually of higher purity, with B. Range held to closer limits and containing no free chlorides, or sulfates

†Halowax Prods Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

o-CHLORPARANITRANILINE (2-Chlor 4 Nitroaniline)

$ClC_6H_3(NO_2).NH_2$. M.W. 172.5. Yellow cryst. solid. Sol. in most organic solvents; insol. water. M.P. above 107.0°C. Uses—as a dye intermediate.

†Dow Chem Co, Midland, Mich	Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y	Lexington 2-5806

p-CHLORO-o-NITRANILINE

†Dow Chem Co, Midland, Mich	Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O	Elmhurst 1300
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3209

1-CHLORO-1-NITROETHANE

CH_3CHNO_2Cl. M.W. 109.52. Uses: solvent for fats and waxes; antigelling agent for rubber cement.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

1-CHLORO-1-NITROPROPANE

$CH_3CH_2CHNO_2Cl$. M.W. 123.54. Miscible with most organic solvents. Uses: solvent for fats and waxes; anti-gelling agent for rubber cement.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

2-CHLORO-2-NITROPROPANE

$CH_3CNO_2ClCH_3$. M.W. 123.54. Miscible with most organic solvents. Uses: solvents for fats and waxes; anti-gelling for rubber cement.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

p-CHLORO-o-NITROPHENOL

†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3209

o-CHLORO PHENOL

C_6H_5OCl. M.W. 128.53. Yellow or brown liq. Dist. limits 173.0° to 177.0°C. Sp. gr. 1.265 at 15.5°C. Weight per gal., 10.5 lbs. approx. Uses—mfr. alizarines, pyrocatechol, in organic synthesis. Ship. Class.—dye intermediate. Ship. reg.—Poison (label required).

†Dow Chem Co, Midland, Mich	Midland 500
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000

p-CHLOROPHENOL

C_6H_5OCl. M.W. 128.53. Weight per gal., 11 lbs. approx. Distillation limits 218.0° to 220°C. Distillation range 4°C. maximum. Yellowish light brown crystalline mass, unpleasant penetrating odor. Sp. gr. 1.306. M.P. 37°C. B.P. 217°C. Sol. alcohol, ether; very slightly sol. water. Uses—mfr. dyestuffs, intermediates, hydroquinone, pharmaceutical derivatives.

†Dow Chem Co, Midland, Mich	Midland 500
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000

CHLOROPHENOL BLUE (Tetrachlorophenol Sulfonphthalein)

$C_{19}H_{10}Cl_4O_5S$. M.W. 492. Light yellow crystalline powder. Uses: pH indicator - pH range 3.0 (yellow) to 4.6 (blue).

†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8832

CHLOROPHENOL RED (Dichlorphenolsulfonphthalein)

$C_{19}H_{12}Cl_2O_5S$. M.W. 423.2. Fine, green or greenish brown crystals. Uses: pH indicator - pH range 5.2 (yellow) to 6.8 (red).

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa	Allegheny 4-8832

6-CHLORO-2-PHENYLPHENOL

†Dow Chem Co, Midland, Mich — Midland 500

2-CHLORO-4-PHENYLPHENOL

$C_6H_3.C_6H_3ClOH$. M.W. 204.5. Light-colored crystalline solid. B.P. at 7mm. 160-163°C. M.P. above 77.0°C. Sol. sodium hydroxide solutions and most organic solvents; insol. in water.

†Dow Chem Co, Midland, Mich — Midland 500

2-CHLORO-6-PHENYLPHENOL

$C_6H_3.C_6H_3ClOH$. M.W. 204.5. Colorless to light straw-colored, viscous liquid with a slight characteristic odor; tech. grade deposits crystals on standing at 15°C. B.P. 315-317°C., with slight decomposition. Sp. gr. 1.24 at 24/4°C. Weight per gal. 10.6 lbs. at 77°F. M.P. 6.0°C. Refractive index at 30°C. 1.6237-1.6287. Sol. in sodium hydroxide solutions and most organic solvents; insol. water. Uses—as a germicide and fungicide. Grades—tech.; purified.

†Dow Chem Co, Midland, Mich — Midland 500

CHLOROPHYLL (Leaf-Green)

$C_{55}H_{72}O_7N_4Mg$. Green, solid, crystalline. Natural. No. M.P. Decomposes on heating. Sol. alcohol; very slightly sol. ether. Uses—coloring foods, stearin candles, leather, perfumes, cosmetics, vaseline, soap and wax. Grades—oil sol. water sol.

CHLOROPHYLL
Pharmaceutical
and Technical Grades
R. W. GREEFF & CO., INC.
10 Rockefeller Plaza, New York 20, N. Y.

CHLOROPHYLL (cont'd)

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

CHLOROPICRIN (Chlorpicrin, Nitrochloroform, Nitrochloromethane, Trichloronitromethane)

CCl_3NO_2. M.W. 164.38. Colorless liqu. Sp. gr. 1.692. M.P. —64° C. B.P. 112°C. Sol. alcohol, ether. Uses—killing silkworm in cocoons; as military poison gas; insecticide; disinfectant; in medicine.

†Dow Chem Co, Midland, Mich — Midland 500
†Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Beechem Labs, St Johns, Mich

CHLOROPRENE

†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121

p-CHLOROPROPIOPHENE

†Dow Chem Co, Midland, Mich — Midland 500

2-CHLOROPYRIDINE

†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

CHLOROQUINOLINE

†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

2-CHLOROQUINOLINE

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877

2-CHLOROTHIOPHENE

†Consolidated Midland Corp, Katonah, N Y — Katonah 1010

CHLOROTHYMOL

Germicide. Reported 120 times the germicidal strength of phenol, when tested against staphylococcus aureus.

†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120

CHLOROTOLUENE

$ClC_6H_4CH_3$. Colorless liq.; mixture of ortho and para isomers. Sp. gr. 1.078-1.088 at 15½°/15½°C. Uses—rubber accelerators; organic intermediates.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

o-CHLOROTOLUENE

$C_6H_4Cl(CH_3)$. Colorless liq. Sp. gr. 1.085 (15°C.). B.P. 159°C. Sol. alcohol, benzene, chloroform, ether. Uses—mfr. intermediates, orthochlorbenzaldehyde, orthochlorbenzoic acid.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

p-CHLOROTOLUENE

$C_6H_4ClCH_3$. Colorless liq. Sp. gr. 1.074 (15°C.). M.P. 7.4°C. B.P. 162°C. Sol. alcohol, benzene, chloroform, ether. Uses—mfr. intermediates, parachlorbenzaldehyde, parachlorbenzoic acid.

Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

CHLORO-m-XYLENOL

$C_6H_2(CH_3)_2OH.Cl$. M.P. 112.5°C. White. Solid. Sol. alcohol, caustic soda. Uses—mold preventative; fungicide and germicide.

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800

p-CHLORO-m-XYLENOL

Intermediate used in the manufacture of dyestuffs; in organic synthesis.

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

CHOLESTEROL

$C_{27}H_{46}O$. White, unctuous, pearly leaflets. Sp. gr. 1.067. Melts 148-149° when anhydrous. Slightly soluble in water; sol. in benzene, chloroform, ether, hot alcohol, oils, fats. Uses—medicine, antihemolytic, antiautolytic. Grade-tech. Cont.-tins.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445

CHOLESTEROL (cont'd)

Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
†United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686
†Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

CHOLINE COMPOUNDS

Sincaline, Bilineurine, Amanitine, Gossypine, Vidine, Bursine, Luridine, Fagine. $C_5H_{15}O_2N$, mol wt. 121.13. Found in many plants and animal organs, e. g., bile, brain, yolk of eggs, hops, belladonna. It is the basic constituent of Lecithin. Colorless, viscid, strongly alkaline liquid; very soluble in water, alcohol; insol.—ether. Used usually as the chloride.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Hexagon Labs, Inc, 3536 Pearlee Av, Bronx, N Y — Fairbanks 4-7550
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

†Meta Chem Corp, Newark, N J — Ulrich Chem Co, Indianapolis, Ind
†Stanetal Corp, Linden, N J

CHOLINE

Bitartrate • Dihydrogen Citrate
Chloride • Tricholine Citrate

METHIONINE **BETAINE**
INOSITOL

CHEMO PURO MANUFACTURING CORP.
26-32 Skillman Ave. **Long Island City, N. Y.**

CHROME GREEN

A precipitated mixture of lead chromate and iron ferro and ferricyanide blue, with or without other insoluble compounds of lead used as a pigment. Available as a dry pigment, paste in oil, or paste in Japan.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Eakins, J S & W R, Inc, Bklyn, N Y — †Western Dry Color Co, Chicago, Ill
†Pigment Color Div, Imperial Paper & Color Corp, Glens Falls, N Y

CHROMIC ACID—see Acid Chromic

CHROMITE (Chrome, Chrome Ore, Ferrochromite, Chrome Iron Stone)

$FeOCr_2O_3$. Natural mineral. Sp. gr. 4.3-4.6°C. Insol. acids. Uses—mfr. bichromates and other chrome materials, chrome alloys of various kinds, chrome bricks, furnace linings. Grades—various.

†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

CHROMIUM (Metal)

Cr. Steel gray. Solid. Sp. gr. 6.92. M.P. 1615°C. B.P. 2200°C. Sol. acids. Uses—mfr. ferro-chromium; as catalyst in making dyestuffs, intermediates, etc.; in metallurgy.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Metallurg, Inc, N Y

CHROMIUM ACETATE (Chromous Acetate)

Chromic normal $Cr(C_2H_3O_2)_3H_2O$. Chromous normal $Cr(C_2H_3O_2)_2+H_2O$. Chromic normal grayish-green powd. Chromous normal brownish-violet powd. Sol. water; insol. alcohol. Uses—mordant in dyeing and printing textiles; in tanning leather; gas analysis. Grades—solution 20 deg. Be.; paste; powd.; tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Colonial Chem Co, Seattle, Wash
†Fiber Chem Corp, Matawan, N J

CHROMIUM BROMIDE

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005

CHROMIUM CARBONATE

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051

CHROMIUM CHLORIDE (Chromic Chloride, Chromium Sesquichloride)

$CrCl_3$. Greenish, crystalline powd. Sp. gr. 2.757 (15°C.). B.P. 1200-1500°C. Slightly sol. hot water, sol. water in presence of trace chromous chloride. Sublimes to form chromium sesquichloride. Used as a catalyzer. Uses—mfr. chromium salts; catalyst in making intermediates and organic chemicals; mordant in dyeing and printing textiles; finishing leather; electroplating chromium. Grades—tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Fiber Chem Corp, Matawan, N J

CHROMIUM FLUORIDE (Chromic Fluoride)

$CrF_3.4H_2O$. Green crystalline powd. Sp. gr. 2.75. Decomposes on heating. Sol. water, acids. Uses—mordant in dyeing and printing textiles; pigment in coloring marble; hardening stone. Grades—cryst. (33% Cr_2O_3); solution (11% Cr_2O_3); tech., C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214
Colonial Chem Co, Seattle, Wash
†Fiber Chem Corp, Matawan, N J

CHROMIUM FORMATE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481

CHROMIUM HYDROXIDE

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
†Pigment Color Div, Imperial Paper & Color Corp, Glens Falls, N Y
†Williams, C K, & Co, E St Louis, Ill

CHROMIUM NAPHTHENATE

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

CHROMIUM NITRATE

$Cr(OH)(NO_3)_2$. M.W. 193. Dark green liquid. Sol. water, alcohol. Uses: intermediate.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

CHROMIUM OLEATE

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Beier Co, N Y

CHROMIUM OXALATE

$Cr_2C_6O_6.H_2O$. M.W. 158.03. Yel. cryst. powd. Sol. water. Available in sample quantities, larger amounts produced on order.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151

CHROMIUM OXALATE (cont'd)

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005

CHROMIUM OXIDE (Chromic Oxide, Oil Green, Chromium Sesquioxide, Green Cinnabar)

Cr_2O_3. M.W. 152.02. Bright green, crystalline powd. Sp. gr. 5.21. M.P. 1990°C. Slightly sol. acids. Uses—mfr. chromium alloys, chromates, intermediates and organic chemicals, target signals, dyes, electric batteries, green pigment in ceramics, glass, inks, paints, varnishes and rubber; catalyst in chemical processes; laboratory reagent; mordant in dyeing and printing textiles; in steel, brass and metal industries; process engraving; medicine. Grades—tech.; C.P.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Dow Chem Co, Midland, Mich — Midland 500
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
†Smith Chem & Color Co Inc, 53 John St, Bklyn, N Y — Main 5-0567
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5750
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Grove, M O, & Co, San Fran, Calif
†Pigment Color Div, Imperial Paper & Color Corp, Glens Falls, N Y
Osborn, C J, Co, N Y
Pylam Prods Co, Inc, N Y
Reardon Industries, Cincinnati, O
†Vitro Mfg Co, Pittsburgh, Pa
†Williams, C K, & Co, E St Louis, Ill

CHROMIUM POWDER

Cr. 99.50%. Supplied in various meshes such as 250-300 mesh.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

CHROMIUM STEARATE

Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981

CHROMIUM SULFATE (Chromic Sulfate, Wool Mordant)

a. $Cr_2(SO_4)_3$. b. $Cr_2(SO_4)_3.15H_2O$. c. $Cr_2(SO_4)_3.18H_2O$. a. Violet or red. b. Dark green. c. Blue. All solids. a. Amorp. b. Amorp.

KOREON

(Basic Chromium Sulfate)

PREPARED ONE-BATH CHROME TAN

	Koreon M	Koreon X
Cr_2O_3	23.8—24.4%	24.8—25.4%
Al_2O_3	1.6— 1.9%	0.9— 1.1%
Sulfate as SO_3	36 —37 %	34 —35 %
Alkalies as Na_2O	10 —11 %	14 —15 %
Basicity (Schlorlemmer)	32.8—33.4%	51.6—52.4%

Packing: Bags weighing 75 lbs. net and fibre drums approximately 325 lbs. net.

MUTUAL CHEMICAL CO. OF AMERICA SINCE 1845

MUTUAL CHEMICAL CO. OF AMERICA

270 Madison Avenue New York 16, N. Y.

CHROMIUM SULFATE (cont'd)

scales. c. Crystalline. Sp. gr. a. 3.012. b. 1.867. c. 1.7 (22°C.). Loses water on heating. a. Insol. water, acids. b. Sol. water. c. Sol. water. Uses—mfr. green inks; green pigment in ceramics, paints, and varnishes; mordant in dyeing and printing textiles. Grades—tech.; cryst.; scales; powdered; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg 5-2151
†Dennis, Martin, Co, 859 Sussex Av, Newark, N J — Humboldt 3-2874
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Taber 0251
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Mutual Chem Co of Amer, 270 Madison Av, N Y — Caledonia 5-9710
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Filter Chem Corp, Matawan, N J — Ritter Chem Co, Amsterdam, N Y

CHRYSENE

$C_{18}H_{12}$; mol. wt. 228.09. An aromatic hydrocarbon occurring in coal tar. Colorless scales, reddish-violet fluorescence. M. P. 250-254°C; B. P. 448°C. Insol.—water. Sol.—hot solvents.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

CINCHOPHEN (Phenylcinchoninic Acid, 2-Phenylquinoline-4, Carboxylic Acid, Quinophan [B.P.C.], Phenoquin, Argotan)

$C_6H_5.C_9H_6N.COOH$. M.W. 249.18. M.P. 213-216° C. Sym., colorl. needles, or white or yellowish-white odorl., sltl. bitter, cryst. powd. Sol. alcohol. Insol. water. Uses—medicine.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660

Fine Chemicals = BPC =

CINCHOPHEN

NEOCINCHOPHEN

BENZOL PRODUCTS CO.

237 SOUTH STREET — NEWARK 5, N. J.

CINCHOPHEN, METHYL ESTER (Methyl Phenylcinchoninate)

$C_{17}H_{13}O_2N$. M.W. 263.29. White or yellowish white, practically odorless powder. Sol. alcohol, ether, benzol; insol. water. Use: cinchophen.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660

CINNAMIC ACETATE

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140

CINNAMIC ALDEHYDE

C_9H_8O. M.W. 132.11. Yellowish liq. with cinnamon odor. Uses: in perfumery.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202

CINNAMIC ALDEHYDE (cont'd)

†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

CINNAMIC BUTYRATE

†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200
†Felton Chem Co, Inc, Bklyn, N Y

CINNAMIC FORMATE

†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200
†Felton Chem Co, Inc, Bklyn, N Y

CINNAMIC PROPIONATE

†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200
†Felton Chem Co, Inc, Bklyn, N Y

CITRACONIC ANHYDRIDE

†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

CITRAL

$C_9H_{15}CHO$. Occurs in 4 isomeric forms. Colorless to yellowish liq. with lemon odor. Sp. gr., 0.895 at 20°C. Uses: to give lemon odor to perfumes; used in lemon extract and in flavoring.

dependable source

citral

More than 151 years of Progress and Experience

D.O ESTABLISHED 1796

DODGE & OLCOTT, INC.

180 Varick Street • New York 14, N. Y.

ESSENTIAL OILS • AROMATIC CHEMICALS

PERFUME BASES • VANILLA • FLAVOR BASES

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Maywood Chem Wks, 100 W Hunter Av, Maywood N J — Hackensack 2-2020
†Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091
†Felton Chem Co, Inc, Bklyn, N Y

CITRONELLA CEYLON

Essential oil. Straw colored liquid. Uses: soaps.

Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
News & French, 99 Broad St, Boston, Mass	Hancock 5910
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
Felton Chem Co, Inc, Bklyn, N Y	Gitlin, Charles, & Co, Inc, N Y

CITRONELLAL

$C_{10}H_{18}O$. M.W. 154.19. Colorless liq. B.P. 207°C. Very slightly sol. water, misc. with alcohol or ether. Uses: perfumery, flavoring.

†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
†Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Felton Chem Co, Inc, Bklyn, N Y	

CITRONELLOL

$C_{10}H_{20}O$. M.W. 156.21. Colorless liq. with rose odor. Very slightly sol. water, misc. alcohol or ether. Sp. gr. 0.859 at 20°C. Boiling range, 223 to 228°C. Uses: perfumery.

†Aromatic Prods Inc, 15 E 30 St, N Y	Murray Hill 4-7875
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200
†Felton Chem Co, Inc, Bklyn, N Y	

CIVET, NATURAL

Unctuous secretion from civet cat, Viverra civetta, Zibetha. Habitat-Asia, Malakka Islands and East Indies. Sol. hot alcohol and ether; insol. in water. Use-fixative for perfumes. Grades—tech., crude and refined.

†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Parker, Herbert H, 2 Bway, N Y	Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
Lyon, Julian W, N Y	

CLAYS, ACTIVATED

Acid-treated clays, usually bentonite whose bleaching action has been considerably increased by the action of the acid. Generally used in form of fine powder.

★

ATTACLAY A highly efficient carrier, diluent, extender, and conditioner used in the manufacture of insecticide concentrates, finished dusts, fungicides, wettable powders, rodenticides, herbicides, plant hormone dusts, seed disinfectants and fertilizers.

★

Produced from the mineral "Attapulgite," an aluminum magnesium silicate, noted for its consistent and compatible composition, large adsorptive capacity, free-flowing characteristics, and low bulk density. Specially processed to insure physical uniformity.

ATTAPULGUS CLAY COMPANY

210 West Washington Square, Philadelphia 5, Pa.

Cable Address: "ATTACLAYCO"

DILUEX

This inert and compatible diluent has been successfully used for years in insecticides, fungicides, and fertilizers. Improves the dusting and flow of dry mixtures, disperses rapidly in water without lumping, makes for wide coverage, and has excellent adhesive quality. Gives full support to toxic ingredients. Samples and data on request.

FLORIDIN COMPANY

DEPT. L, 220 LIBERTY ST. WARREN, PA.

CLAYS, ACTIVATED (cont'd)

†Attapulgus Clay Co, 210 W Washington Sq, Phila, Pa	Walnut 2-5720
†Floridin Co, Warren, Pa	329
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
†United Clay Mines Corp, 103 Oakland St, Trenton, N J	Trenton 5-6356
†Kentucky Clay Mining Co, Mayfield, Ky	

CLAYS, BALL

A tough, strong and very plastic clay, though not necessarily white in color, as a matter of fact it usually runs gray, tan, bluish, etc.—the name "Ball Clay" is derived from the original clay pits in England, where this kind of clay was mined in the form of balls, each ball weighing approx. 13 lbs.

English China Clays Sales Corp, 551 5 Av, N Y	Murray Hill 2-2190
†Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-3939
†United Clay Mines Corp, 103 Oakland St, Trenton, N J	Trenton 5-6356
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y	Walker 5-3749
†Kentucky Clay Mining Co, Mayfield, Ky	Porter Warner Industries, Inc, Chattanooga, Tenn

CLAYS, BLEACHING

Include those earth products used in the refining of petroleum, animal, and vegetable oils by the percolation and contact techniques. See also Fuller's Earth; Bauxite; Clays, Activated; Clays, Bleaching.

INDUSTRIAL

CLAYS

FOR

Ceramics Abrasives
Paper Textiles
Rubber Insecticides
Water Paints Refractories
Inks Porcelain Enamel
Adhesives Pigments

UNITED CLAY MINES
CORPORATION
TRENTON, NEW JERSEY

CLAYS, BLEACHING (cont'd)

English China Clays Sales Corp, 551 5 Av, N Y	Murray Hill 2-2190
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†Johns-Manville, 22 E 40 St, N Y	Lexington 2-7600
La Pine, Arthur S. & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
†Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
Mercharis Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
†United Clay Mines Corp, 103 Oakland St, Trenton, N J	Trenton 5-6356

†Industrial Minerals & Chem Co, Berkeley, Calif

†Millwhite Co, Houston, Tex

CLAYS, CALCINED

Clay, either China or Ball, which has been subjected to a rather high heat (approx. 2400 to 2450 deg. F.) which removes or destroys certain chemicals found in the natural material—also removes the plastic qualities and combined water.

English China Clays Sales Corp, 551 5 Av, N Y	Murray Hill 2-2190
†Huber, J M, Corp, 342 Madison Av, N Y	Murray Hill 7-6900
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa	Palmerton 3172
†United Clay Mines Corp, 103 Oakland St, Trenton, N J	Trenton 5-6356

Edgar Bros Co, Metuchen, N J

GK

CHINA CLAYS

•

Selected Particle Size

for use in

PAPER—Filling and Coating

CERAMICS • RUBBER

PAINTS • TEXTILES

•

Georgia Kaolin Company

433 No. Broad St.

Elizabeth 3, N. J.

CLAYS, CHINA (Kaolin, Bolus Alba, Argilla, White Bole, Porcelain Clay, Cornish Clay, Pipe Clay, Porcelain Earth)

$Al_2O_3.2SiO_2.2H_2O$. White to grayish fine powd. Sp. gr. 1.8-2.6. Sol. hydrochloric acid. Uses—mfr. glass, potteries, porcelains, white earthenware, tile, glazes and slips, textile size, color lakes, lead pencils, rope, string, emery wheels, litharge, ceramic colors, electric insulators, scouring soaps; wall paper, paper, paint and rubber filler; printing paste thickener and filling agent; bleaching agent and clarifier of oils, paints, varnishes, enamels; tanning and finishing leather; in medicine. Grades—various as to color, etc.

Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Doggett, Stanley, Inc, 75 Varick St, N Y	Walker 5-1051
English China Clays Sales Corp, 551 5 Av, N Y	Murray Hill 2-2190
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J	Elizabeth 2-1636
Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Huber, J M, Corp, 342 Madison Av, N Y	Murray Hill 7-6900
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113

HUBER

CLAYS

Water Washed and Airfloated China Clays (Kaolin)

FOR

Paper . . . filler, coating
Rubber
Ceramics
Adhesives
Insecticides
Textiles

J. M. HUBER CORPORATION

342 MADISON AVENUE, NEW YORK 17, NEW YORK

CLAYS, CHINA (cont'd)

Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y	Beekman 3-3162
†Reheis Co Inc, Berkeley Hghts, N J	Summit 6-7110
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†United Clay Mines Corp, 103 Oakland St, Trenton, N J	Trenton 5-6356
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y	Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

†Aluminum Flake Co, Barberton, O
Dixie Clay Co, N Y
†Edgar Bros Co, Metuchen, N J
Egleston, Wm D, Co, Cambridge, Mass
Haze, Harry, Inc, Chicago, Ill
†Illinois Minerals Co, Cairo, Ill
†Industrial Minerals & Chem Co, Berkeley, Calif
Miller, Carl F, & Co, Inc, Seattle, Wash
Osgood, D H, Co, Detroit, Mich
Porter Warner Industries, Inc, Chattanooga, Tenn
†Thompson, Weinman & Co, N Y
Winther, S A, & Co, Inc, San Fran, Calif

CLAYS, COATING

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
English China Clays Sales Corp, 551 5 Av, N Y	Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J	Elizabeth 2-1636
†Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†United Clay Mines Corp, 103 Oakland St, Trenton, N J	Trenton 5-6356

†Edgar Bros Co, Metuchen, N J

CLAYS, COLLOIDAL

A type of clay which will remain in suspension for quite a period of time without settling.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill	Superior 7-5637
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
English China Clays Sales Corp, 551 5 Av, N Y	Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J	Elizabeth 2-1636
†Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y	Beekman 3-3162
†Reheis Co Inc, Berkeley Hghts, N J	Summit 6-7110
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†United Clay Mines Corp, 103 Oakland St, Trenton, N J	Trentoh 5-6356
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864

CLAYS-KAOLINS

Imported & Domestic

China Clay
Albany Slip
Colloidal Clay
Ball Clay

Talc
Whiting
Bentonite
Terra Alba
Chalk
Marble Flour
Soapstone
Lime
Silica
Red Iron Oxide
Plaster Paris
Bath Brick
Pumice
Limestone
Barytes
Fullers Earth
Potato Starch
Gypsum

HAMMILL & GILLESPIE, INC.

225 Broadway, New York 7

Est. 1848

CLAYS, COLLOIDAL (cont'd)

Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Wyodak Chem Div, Federal F'dry Supply Co, 4610 E 71 St, Cleveland, O — Michigan 8125

†Argenta Prods Co, Eastport, Maine
Black Hills Chem Co, Rapid City, S Dakota
†Commercial Minerals Co, San Fran, Calif
†Edgar Bros Co, Metuchen, N J
†Kentucky Clay Mining Co, Mayfield, Ky
†Milwhite Co, Houston, Tex
Pearson Ferguson Chem Co, Kansas City, Mo
Port Huron Detergent Co, Inc, Port Huron, Mich
Porter Warner Industries, Inc, Chattanooga, Tenn

CLAYS, CRUCIBLE

A particular type of Ball Clay, capable of withstanding extremely high temperatures. Used in the manufacture of various types of crucibles.

English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356

†Kentucky Clay Mining Co, Mayfield, Ky

CLAYS, CRUDE POT

English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067

†Kentucky Clay Mining Co, Mayfield, Ky

CLAYS, ENAMELERS'

Clays which are rather plastic and "fatty"—must be capable of floating the non-plastic enamel ingredients. This type of clay should be extremely pure and free from carbonates. There are several uses for this clay in enamels, one, for the ground coat, the other, the finishing coat. During the past few years a combination of domestic clays, including a very pure Florida clay has become very popular with the enameling industry.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
†United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356

CLAYS, FILLER

Various types of clays used in paper coating, textile sizing, paint mfr., pharmaceuticals as fillers and extenders.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Huber, J M, Corp, 342 Madison Av, N Y — Murray Hill 7-6900
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
†Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Aluminum Flake Co, Barberton, O
Dixie Clay Co, N Y
†Edgar Bros Co, Metuchen, N J
†Industrial Minerals & Chem Co, Berkeley, Calif
†Kentucky Clay Mining Co, Mayfield, Ky
†Keystone Filler & Mfg Co, Muncy, Pa
†Thompson, Weinman & Co, N Y
Williams, C K, & Co, E St Louis, Ill

CLAYS, FIRE

Chief object of this type of clay is to withstand excessive heats without de-forming or melting. A true Fire Clay should withstand 3000°F. without running or melting in any way.

†Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
†United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356

†Aluminum Flake Co, Barberton, O
†Porter Warner Industries, Inc, Chattanooga, Tenn

CLAYS, FOUNDRY

See Clays, Fire, for description.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
†United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356
Wyodak Chem Div, Federal F'dry Supply Co, 4610 E 71 St, Cleveland, O — Michigan 8125

†Edgar Bros Co, Metuchen, N J
†Illinois Minerals Co, Cairo, Ill
†Porter Warner Industries, Inc, Chattanooga, Tenn

CLAYS, HIGH ALUMINA

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
†United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356

CLAYS, INSECTICIDAL DUSTING

Clay which is pulverized, airfloated and unusually light and fluffy—very bulky and light in weight per cu. ft. A clay, light gray in color is most desirable. Must show a pH value of 4.5 to 6. Used by insecticide manufacturers of rotenone dusts.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Huber, J M, Corp, 342 Madison Av, N Y — Murray Hill 7-6900
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
†Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
†Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749

†Aluminum Flake Co, Barberton, O
†Commercial Minerals Co, San Fran, Calif
Dixie Clay Co, N Y
†Edgar Bros Co, Metuchen, N J
Egleston, Wm D, Co, Cambridge, Mass
†Industrial Minerals & Chem Co, Berkeley, Calif
†Keystone Filler & Mfg Co, Muncy, Pa
†Milwhite Co, Houston, Tex
†Thompson, Weinman & Co, N Y

CLAYS, PAPER-MAKERS'

Special China Clay with suitable physical and chemical properties for the coating of papers.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
†Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
†Huber, J M, Corp, 342 Madison Av, N Y — Murray Hill 7-6900
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Edgar Bros Co, Metuchen, N J

CLAYS, POTTERY-MAKERS'

Clay used by manufacturers of pottery—can be either the China Clay type or the Ball Clay type inasmuch as both types are used extensively by the pottery manufacturers. However, the term pottery clay usually applies to the plastic ball clay type.

Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
†Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
†Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
†Huber, J M, Corp, 342 Madison Av, N Y — Murray Hill 7-6900
†United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864

Dixie Clay Co, N Y
†Edgar Bros Co, Metuchen, N J
†Kentucky Clay Mining Co, Mayfield, Ky

CLAYS, PULVERIZED-AIRFLOATED

The term given to clays (regardless of what type) which have been properly dried (to approx. 2%) then put through an Airfloating Mill. The term "Airfloated" usually applies to the milled clay which, after being extremely finely pulverized is blown by a blast of air upward to the hopper—hence the term "Airfloated" because it is "floated" in the air.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
†Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
†Huber, J M, Corp, 342 Madison Av, N Y — Murray Hill 7-6900
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172

ECCO CLAYS
FOR
ALL PURPOSES
• PAPER MAKERS
• POTTERY
• PULVERIZED
• COLLOIDAL
• BALL
CLAYS
ENGLISH CHINA CLAYS SALES CORP.
551 FIFTH AVENUE NEW YORK 17, N. Y.

CLAYS, PULVERIZED-AIRFLOATED (cont'd)

Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356
Cleveland, O — Michigan 8125
Wyodak Chem Div, Federal F'dry Supply Co, 4610 E 71 St,

†Aluminum Flake Co, Barberton, O
Carroll, R E, Inc, Trenton, N J
†Corona Chem Div, Milwaukee, Wisc
Dixie Clay Co, N Y
†Edgar Bros Co, Metuchen, N J
†Industrial Minerals & Chem Co, Berkeley, Calif
†Kentucky Clay Mining Co, Mayfield, Ky
†Thompson, Weinman & Co, N Y

CLAYS, REFRACTORY

See Clays, Fire, for description.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
†Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
†Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
†Huber, J M, Corp, 342 Madison Av, N Y — Murray Hill 7-6900
†Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
†United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356

†Edgar Bros Co, Metuchen, N J
†Illinois Minerals Co, Cairo, Ill

CLAYS, RUBBER-MAKERS'

Generally a white grit free domestic china clay, having some very definite functions when introduced in a rubber compound to perform—a good Rubber Clay should lend a certain stiffening to the finished product—it should have the ability to mix with the crude rubber very readily, and when used should become absolutely "part" of the compound itself. All china clays are NOT necessarily good rubber clays, and about the only true method of determining one clay from another is by actual test, because the majority of china clays are not suitable for rubber due to the fact that they make for soft "flabby" products, rather than stiff, compact products.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Huber, J M, Corp, 342 Madison Av, N Y — Murray Hill 7-6900
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Akron Chem Co, Akron, O
†Aluminum Flake Co, Barberton, O
Berlow & Schlosser Co, Providence, R I
Carroll, R E, Inc, Trenton, N J
Dixie Clay Co, N Y
†Edgar Bros Co, Metuchen, N J
Egleston, Wm D, Co, Cambridge, Mass
†Thompson, Weinman & Co, N Y

CLAYS, SAGGER

This type of clay is usually made up of two or more tough plastic clays, one of the clays being rather strong tight burning and of the Ball Clay type, while the other should be rather open burning and refractory. The use of a Sagger Clay is for the making of receptacles in which ceramic products are placed when they are being fired or "cooked"—a Sagger in the pottery occupies the same position as a cooking-pot does in the kitchen.

English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
†Huber, J M, Corp, 342 Madison Av, N Y — Murray Hill 7-6900
†United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356

†Aluminum Flake Co, Barberton, O
Dixie Clay Co, N Y
†Kentucky Clay Mining Co, Mayfield, Ky

CLAYS, TEXTILE

An unusually smooth grit free white domestic or imported china clay—having certain suspending properties. However, the most important factor is the amount of silica and grit contained—this is because the clay is used in the manufacture of certain types of cotton cloth and also as an ingredient in delusterizing baths for the rayon goods.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
†Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
†Huber, J M, Corp, 342 Madison Av, N Y — Murray Hill 7-6900
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864

Dixie Clay Co, N Y
†Edgar Bros Co, Metuchen, N J
Porter Warner Industries, Inc, Chattanooga, Tenn

CLAYS, WASHED

Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

†Edgar Bros Co, Metuchen, N J

COBALT (Metal)

Co. Steel-gray, malleable, magnetic metal. Sp. gr. 8.5-8.9. M.P. 1480°C. Sol. acids. Uses—mfr. cobalt salts, inks, paint and artists colors, filaments for electric lamps, liquid driers; catalyst in hardening oils; chemical catalyst and oxidizing agent; alloys in alloy steels; various metallurgical purposes; boiling linseed oil; coloring potteries, porcelains and glass; electroplating. Grades—tech. containing more or less nickel and iron; pure cobalt "shot" (granules about 98% Co).

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2725
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

COBALT ACETATE (Cobaltous Acetate)

$Co(C_2H_3O_2)_2 + 4H_2O$. M.W. 249.05. Reddish-violet deliq. cryst., acetic odor. Sp. gr. 1.7043 (18.7°C.). Sol. water. Uses—mfr sympathetic inks; paint and varnish driers. Grades—tech.; pure crystalline powd.; C. P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

†Ferro Chem Corp, Bedford, O
Kruger, L, & Co, Inc, N Y
Shepherd Chem Co, Cincinnati, O

COBALT BLUE (Azure Blue, Cobalt Ultramarine, King's Blue, Leyden Blue, Thenard's Blue)

Oxides of Co and Al in varying proportions. Blue to green powd. Uses: pigment in oil and water colors. Grades—tech.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Fezandie & Sperrle, Inc, 205 Fulton St, N Y — Cortlandt 7-1460
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

Beier Co, N Y

COBALT CARBONATE (Cobaltous Carbonate)

$2CoCo_3.3Co(OH)_2$. M.W. 516.75. Violet-red powd. Decomposes on heating. Sol. acids; insol. water. Uses—mfr cobalt salts, cobaltic oxide, ceramics, pigments. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

Bonewitz Chems, Inc, Burlington, Iowa
†Ferro Chem Corp, Bedford, O
Shepherd Chem Co, Cincinnati, O

COBALT CHLORIDE (Cobaltous Chloride)

a. $CoCl_2$. b. $CoCl_2.6H_2O$. Ruby red, solid crystalline. Sp. gr. a. 3.356. b. 1.92. M.P. a. Sublimes. b. 86.75°C. Sol. water. Uses—mfr. sympathetic inks, barometers, thermometers, hygrometers, gas masks; electroplating; for cobalt and nickel alloys; ammonia absorbent. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870

COBALT CHROMATE (Cobaltous Chromate)

Varying composition. Brown powd. Sol. mineral acids and in solution CrO_3. Uses: pigment in ceramics.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850

COBALT 2-ETHYLHEXOATE

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

COBALT FLUORIDE (Cobaltous Fluoride)

CoF_2. M.W. 96.94. Pink granular powder. Uses: organic fluorination.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

COBALT HYDRATE (Cobaltous Hydroxide, Cobaltous Hydrate)

$Co(OH)_2$. Rose-red, amorp. powd. Sp. gr. 3.597. Sol. acids, ammonium salt solutions. Uses—mfr. cobalt salts, paint and varnish driers. Grades—tech.

Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

COBALT IODIDE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2725

COBALT LINOLEATE (Cobaltous Linoleate)

$Co(C_{18}H_{33}O_2)_2$. Brown, amorp. powd. Sol. alcohol, ether, oils. Uses—paint and varnish drier. Grades—liq.; solid; paste.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Brooks, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Shepherd Chem Co, Cincinnati, O

COBALT
NAPHTHENATES
OCTOATES
LINOLEATES
RESINATES
Fred'k A. Stresen-Reuter, Inc.
TELEPHONES HUMBOLDT 1552-1553
2113 MEDILL AVENUE • CHICAGO 47, ILLINOIS

COBALT NAPHTHENATE

Uses—as a drier in paints, varnishes.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Allan, Homer G, St. Louis, Mo
Cole & De Graf, San Fran, Calif
†Ferro Chem Corp, Bedford, O
†Industrial Lining Engrs, Inc, Pittsburgh, Pa
Shepherd Chem Co, Cincinnati, O

COBALT NITRATE (Cobaltous Nitrate)

$Co(NO_3)_2.6H_2O$. Red, deliq. cryst. Sp. gr. 1.87. M.P. 56°C. Sol. water, acids, alcohol. Uses—mfr. sympathetic inks; as cobalt pigments; decorating porcelain and stoneware. Grades—pure; C.P.; tech.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

COBALT OLEATE (Cobaltous Oleate)

$Co(C_{18}H_{33}O_2)_2$. Brown, amorp. powd. Sol. oils, ether, alcohol; insol. water. Uses—varnish drier. Grades—tech.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

COBALT OXIDE (Cobalt Black, Cobalt Peroxide, Cobalt Sesquioxide, Cobaltous Oxide)

Co_3O_4. M.W. 165.88. Blue or black amorp. powd. Sp. gr. 5.18. M.P. decomposes at 895°C. Sol. acids, ammonia. Uses—pigment in paints, varnishes, etc.; coloring enamels; glazing pottery; painting on glass and porcelains. Grades—tech.

Acete Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

Kruger, L, & Co, Inc, N Y
Porter Warner Industries, Inc, Chattanooga, Tenn
Vitro Mfg Co, Pittsburgh, Pa

COBALT PHOSPHATE

$Co_3(PO_4)_2.2H_2O$. Pink powder. Uses—mfg. cobalt pigments; coloring glass, painting on porcelain.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

COBALT, POWDER

Co 98% plus. M.p.-1,467°C., b.p.-3,185°C for the pure material. Sol.—dilute hydrochloric, sulfuric acids; readily in nitric acid. Available in 150 and finer mesh powder. Cont.—casks; bags. Uses—ceramics; lamp filaments; catalyst in hydrogenation of oils; inks; paints; varnishes; colored signs.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

COBALT RESINATE (Cobaltous Resinate)

$Co(C_{44}H_{66}O_4)_2$. Brown, amorp. powd. Insol. water. Uses—drier in paints and varnishes; oil boiling. Grades—fused; tech.; pure; precipitated.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

COBALT STEARATE

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4982
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

COBALT SULFATE (Cobaltous Sulfate, Rose Vitriol, Bieberite)

a. $CoSO_4$. b. $CoSO_4 + 7H_2O$. Red, solid, amorp. and crystalline. Sp. gr. a. 3.71. b. 1.948. M.P. a. 989°C. b. 96.8°C. B.P. b. 420°C. Sol. water. Uses—mfr. cobalt salts; decorating ceramic ware; drier for paints and varnishes; cobalt plating, steel, iron, etc., galvanically. Grades—tech., cryst.; C.P.

Acete Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473

Beier Co, N Y
Bonewitz Chems, Inc, Burlington, Iowa
†Ferro Chem Corp, Bedford, O
Shepherd Chem Co, Cincinnati, O

COBALT TALLATE

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
†Industrial Lining Engrs, Inc, Pittsburgh, Pa

COBALT TUNGSTATE (Cobaltous Tungstate, Cobalt Wolframate)

$CoWO_4$. Reddish-orange, amorp. powd. Insol. water. Uses—pigment. Grades—tech.

†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

COBALTOUS PHOSPHATE (Cobalt Phosphate)

$Co_3(PO_4)_2.2H_2O$. Pink, amorp. powd. Sol. phosphoric acid. Uses—cobalt pigments; painting porcelains and glass ware. Grades—tech.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

CARMINE NO. 40 N.F. (cochineal)
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vegetable
pure food color
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COCHINEAL

Dried bodies of female insects of Coccus cacti. Coloring foods, ceramics; lamp filaments; catalyst in hydrogenation of oils; inks; alcohol; very slightly sol. ether. Uses—coloring foods, beverages, pharmaceuticals, cosmetics; mfr. colored inks, artists' colors, lakes,

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PIGMENTS
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Hastings-on-Hudson, N. Y.
ESTABLISHED 1897

COCHINEAL (cont'd)

carmine, chemical products; laboratory reagent; in medicine. Grades—U.S.P.; tech. (Coccus Cacti); black, gray; silver; whole; powdered.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Ransom, L E, Co, N Y

CODEINE SULFATE

$(C_{18}H_{21}NO_3)_2H_2SO_4 5H_2O$. M.W. 786.69 white crystals or powder. Uses—medicinal.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

COLCHICINE SALICYLATED

$C_{22}H_{25}NO_6 + C_7H_6O_3$. M.W. 537.4 yellow powder. Uses—medicinal.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

COLLIDINE

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

2,4,6-COLLIDINE

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800

COLLODION (Pyroxylin)

Solution of tetranitrocellulose in ether, alcohol or other solvent. Pale yellow liq. Uses—mfr. photographic films, artificial pearls, patent leather, artificial leather, adhesives, toy balloons; vehicle for pharmaceuticals, corn removers, process engraving, printing reproductions; in medicine. Grades—U.S.P 1890; U.S.P. flexible; U.S.P. cantharidal; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Compo Chem Co, Inc, 152 Causeway St, Boston, Mass — Capitol 7-3650
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

COLOR LAKES

A special type of pigment consisting essentially of an organic soluble coloring matter combined more or less definitely with an inorganic base or carrier and characterized by a bright color. There are three classes of color lakes: 1. The older original type composed of hydrate of aluminum dyed with a solution of the natural organic color; 2. The newer and far more extensively used type made by precipitating from solution various coal-tar colors by means of a metallic salt, tannin, or other suitable reagent, upon a base or carrier either previously prepared or coincidently formed; 3. A number of lakes combining both types in varying degree.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440

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COLOR LAKES (cont'd)

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Fezandie & Sperrle, Inc, 205 Fulton St, N Y — Cortlandt 7-1460
†Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

Eakins, J S & W R, Inc, Bklyn, N Y
†Federal Color Labs, Inc, Cincinnati, O
†Pigment Color Div, Imperial Paper & Color Corp, Glens Falls, N Y
†Landers-Segal Color Co, Bklyn, N Y
†Magruder Color Co, Inc, Staten Is, N Y
†Marx, Max Color & Chem Co, Irvington, N J
Pylam Prods Co, Inc, N Y
Uhlich, Paul, & Co, Inc, N Y
†Western Dry Color Co, Chicago, Ill

COLORS, ALIZARINE

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
†L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

Krieger Color & Chem Co, Inc, Hollywood, Calif
†Marx, Max Color & Chem Co, Irvington, N J
Pylam Prods Co, Inc, N Y

COLORS CERAMIC

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206
†Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Grove, M O, & Co, San Fran, Calif
Porter Warner Industries, Inc, Chattanooga, Tenn
†Smith, J Lee, & Co, Inc, N Y
†Vitro Mfg Co, Pittsburgh, Pa

COLORS, CERTIFIED

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Cornelius Prods Co, 336 4 Av, N Y — Murray Hill 6-6791
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

†Bates Chem Co, Lansdowne, Pa
Glidden Co, Chicago, Ill
Krieger Color & Chem Co, Inc, Hollywood, Calif
Lowe, Joseph, Corp, N Y
†Pylam Prods Co, Inc, N Y

COLORS DRY

Concentrated pigments suitable for grinding and used in paints, varnishes, enamels, lacquers, etc., also in textiles, leather, paper, plastics, rubber, etc., as the tinting medium. Representative colors include Carbon black, drop black, lamp black, sienna, burnt and raw, umbers, burnt and raw, Vandyke Brown, Venetian Red, Indian Red, Tuscan Red, Vermillion, ultramarine blue, cobalt blue, Prussian blue, chrome yellow, ochres, chrome green, etc.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600

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COLORS DRY (cont'd)

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chrystal, Charles B, Co, Inc, 55 Park Pl, N Y — Barclay 7-2151
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251

PIGMENTS & COLORS

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ESTABLISHED 1892

ELBERT & COMPANY, INC.

2 BROADWAY, NEW YORK 4, N.Y., DIGBY 8-2670

Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206

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DISTILLATION SERVICE
for cleaning high-priced dirty solvent

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PRINCE MANUFACTURING COMPANY
Bowmanstown, Pennsylvania
Established 1858

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DRY COLORS

Iron Oxide, Prince's "Double Label"
Mineral Brown
Clay & Fillers
Complete Line Earth Colors

COLORS DRY (cont'd)

†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

Akron Chem Co, Akron, O
Browning, E S, Co, San Fran, Calif
Eastern Color & Chem Co, N Y
†Federal Color Labs, Inc, Cincinnati, O
Furnam, James H, Co, Chicago, Ill
Hins, J H, Co, Cleveland, O
Howell, Edwin R, Detroit, Mich
†Pigment Color Div, Imperial Paper & Color Corp, Glens Falls, N Y
Jensen & McClelland, Chicago, Ill
Krieger Color & Chem Co, Inc, Hollywood, Calif
†Magruder Color Co, Inc, Staten Is, N Y
Martin Hoyt & Milne, San Fran, Calif

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Palmer Supplies Co., 1531 West 25th St., Cleveland 13, Ohio
Palmer Supplies Co., Times Star Bldg., Cincinnati, Ohio

Cable Address: "Utility" Newark, N. J. ESTABLISHED 1917

COLORS, EARTH

Natural pigments suitable for grinding in oils for paint manufacture—iron oxide is found widely distributed, usually in combination with alumina, silica, calcium, magnesium, manganese, and water. These ores usually have a brown, reddish brown, red, yellow, or black hue. The brightest natural red iron hematite is found near the southern shores of the Caspian Sea and the refined pigment made from this ore is known as Persian Gulf Oxide. Deposits of iron manganese ores, having a rich brownish green hue, were discovered on the Island of Cypress and the refined product is marketed under the name of Turkey Umbers. Siennas are named after the Italian town of Sienna near where large quantities of bright yellow iron oxide are found. The finished products are marketed as raw and burnt grades. Veins of hydrated iron oxides are the raw material for ochres. Others in the group are the metallic browns and the iron magnetites (black oxides of iron). Iron oxide colors are also the siennas or umbers, either raw or burnt. Precipitated yellow oxides compete intensely with French, Indian, and African ochres. Calcined and precipitated iron oxides compete with the natural red hematites, such as Persian Gulf and Spanish oxides. Earth colors are employed in paints, leather finishes, in latex rubber, etc. See Siennas, Ochres, Umbers, Iron Oxide, Red; Iron Oxide, Yellow.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Fezandie & Sperrle, Inc, 205 Fulton St, N Y — Cortlandt 7-1460
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Furnam, James H, Co, Chicago, Ill
Grund, Henry L, Inc, Cleveland, O
Hins, J H, Co, Cleveland, O
†Murray-Williams Color & Chem Co, Maplewood, N J
†Smith, J Lee, & Co, Inc, N Y
†Williams, C K, & Co, E St Louis, Ill

COLORS DRY (cont'd)

†Marx, Max Color & Chem Co, Irvington, N J
Miller, Carl F, & Co, Inc, Seattle, Wash
†Murray-Williams Color & Chem Co, Maplewood, N J
Osgood, D H, Co, Detroit, Mich
Palmer Supplies Co, Cleveland, O
Pylam Prods Co, Inc, N Y
†Smith, J Lee, & Co, Inc, N Y
Tabler, Wm B, Co, Louisville, Ky
†Western Dry Color Co, Chicago, Ill
†Williams, C K, & Co, E St Louis, Ill

COLORS, MORTAR, STUCCO

Variety of iron oxide, carbon black, lamp black, colors, ochres, siennas, mineral whites, umbers, etc., used to give wide tinctorial opportunity in the use of mortar, cement and stucco. Colors must have high alkali-acid resistance; must withstand the action of the elements over a long period of time.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
†File Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Landers-Segal Color Co, Bklyn, N Y
†Murray-Williams Color & Chem Co, Maplewood, N J
†Reardon Industries, Cincinnati, O
†Smith, J Lee, & Co, Inc, N Y
†Williams, C K, & Co, E St Louis, Ill

COLORS OIL SOLUBLE

Various white and colored pigments and synthetic dyes ground to a fine paste usually in specially prepared pure linseed oil and employed for tinting requirements in paints, varnishes, enamels, lacquers, artists' paints, etc.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Barnard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
File Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300

PRINCE MANUFACTURING COMPANY
Bowmanstown, Pennsylvania
Established 1858
•
MORTAR COLORS
Non-Fading
Lime-Resisting

COLORS OIL SOLUBLE (cont'd)

Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
L & N Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

†Barnett Labs, Long Beach, Calif
†Commonwealth Color & Chem Co, N Y
Krieger Color & Chem Co, Inc, Hollywood, Calif
†Pylam Prods Co, Inc, N Y

COLORS PAPER-MAKERS'

When maximum whiteness has been obtained by bleaching pulp, paper manufacturers use blueing, such as ultramarine, and dyes, usually coal-tar anilines to tone the stock and offset any yellowness still remaining. These dyes, together with mineral pigments are employed to color the stock. The dyes penetrate the actual substance of the fibres. Pigments, however, color the stock by mechanical enmeshment with the fibres. See also, Dyes, Paper; Pigments, Paper. Pig-

Effectively Serving the Industries
For Over Three Decades

DEPENDABLE
"Smithko" Products

Barytes	Drop Black	Pumice Stone
Bentonite	Gilsonite	Silica
Blanc Fixe	Iron Oxides	Siennas
Blues	Lamp Black	Stearates
Calcium Carbonate	Manganese Oxide	Talcs
Chrome Oxides	Mica	Tall Oil
Clays	Ochres	Umbers

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Fabricators of Mineral Colors
Representing Manufacturers of National Reputation
Available Technical Data Upon Request

SMITH CHEMICAL & COLOR CO.
INCORPORATED 1919
55 John Street — Brooklyn 1, New York

COLORS PAPER-MAKERS' (cont'd)

ments are less brilliant in hue than dyes, but are faster to light. If used in any quantity, they serve as fine fillers and have the same action as clay.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
†General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
†L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Bunge, Alfred, Co, N Y
†Hampden Color & Chem Co, Springfield, Mass
Hampden Color & Chem Co, Springfield, Mass
†Pigment Color Div, Imperial Paper & Color Corp, Glens Falls, N Y
Palmer Supplies Co, Cleveland, O
Pylam Prods Co, Inc, N Y
†Smith, J Lee, & Co, Inc, N Y
Western Chems, Inc, Portland, Ore

COLORS PLASTIC

Special pigments, earth colors or soluble dyes, usually added during either the mixing or the rolling operation, which resist heat, pressure, etc.; possess ability to dissolve in certain common solvents, and impart generally that transparency of color so desirable in plastics. Among the pigments are:—Prussian blue, zinc oxide, titanium oxide, carbon black, lampblack, cadmium and chromium colors; the earth colors, such as siennas, ochres, and umbers; the synthetic dyes, such as triphenylmethane basic colors, many of the azo colors, certain of vat dyes, etc.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600



RESIN COLORS

A COMPLETE LINE FOR BOTH MOULDED AND CAST PLASTIC COMPOUNDS

NATIONAL ANILINE DIVISION
ALLIED CHEMICAL AND DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.

Boston Providence Philadelphia Chicago
San Francisco Portland, Ore. Greensboro Charlotte
Richmond Columbus, Ga. Atlanta New Orleans
Chattanooga Toronto

COLORS PLASTIC (cont'd)

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
†General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Akron Chem Co, Akron, O
†Claremont Pigment Dispersion Corp, Bklyn, N Y
†Pigment Color Div, Imperial Paper & Color Corp, Glens Falls, N Y
†Krieger Color & Chem Co, Inc, Hollywood, Calif
†Magruder Color Co, Inc, Staten Is, N Y
†Marx, Max Color & Chem Co, Irvington, N J
Palmer Supplies Co, Cleveland, O
†Smith, J Lee, & Co, Inc, N Y
Uhlich, Paul, & Co, Inc, N Y
†Williams, C K, & Co, E St Louis, Ill

COLUMBIUM (Metal Niobium)

Cb. At. wt. 93.3; at. no. 41. Steel-gray, lustrous metal. Sp. gr. 8.4. M.p. 1950°. Unattacked by HCl, HNO_3, or aqua regia, but is attacked by fusion with fixed alkali hydroxides or with oxidizing agents.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Fansteel Metallurgical Corp, N Chicago, Ill — Vgr-Lac-Oid Chem Co, N Y

COPPER (Cuprum)

Cu. Orange colored, ductile, malleable metal. Sp. gr. 8.90. M.P. 1083°C. Sol. nitric acid; insol. water. Uses—mfr. copper salts, wires, plates, coins, utensils, anodes for electroplating, alloys. Forms—block, ingots, shot, powdered, wire, slabs, etc.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Anaconda Copper Mining Co, N Y
†Federated Metals Div, N Y

COPPER ACETATE (Cupric Acetate, Green Verdigris, Crystallized Verdigris, Venus Crystals, Copper Subacetate, Aerugo)

$Cu(C_2H_3O_2)_2 + 6H_2O$. Greenish-blue powd. Sp. gr. 1.9. Decomposes at 240°C. Sol. water, alcohol, ether. Uses—mfr. paints, varnishes, lacquers, linoleum, oilcloth, inks, ceramic colors, artificial flowers, wall paper, fungicides; preparation gilder's wax; dyeing and printing textiles; as insecticide; laboratory reagent; antique coloring of metals; in medicine. Grades—tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

COPPER ACETOARSENITE (Paris Green, Cupric Acetoarsenite, Emerald Green, Imperial Green, King's Green, Moss Green, Kaiser Green, Meadow Green, Mitis Green, Parrot Green, New Green, Vienna Green, Schweinfurth Green, Patgreen, Vert de Mitis, Vert de Vienne, Weisengreen)

$Cu(C_2H_3O_2)_2.3Cu(AsO_2)_2$. Emerald green, amorp. powd. Mfr. white arsenic dissolved in baking soda ash solution, copper sulfate added, then acetic acid. Washed, filtered, dried at low temperature. Sol. acids, ammonia; insol. water. Uses—mfr. marine paints pigments; and as insecticide and germicide; preservative wood; paints and

Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421

COPPER AMMONIUM SULFATE (Cupric Ammonium Sulfate, Copper Aminosulfate, Ammonio Cupric Sulfate)

$CuSO_4.4NH_3.H_2O$. Dark blue crystalline powd. Decomposes on heating. Sol. water. Uses—mfr. copper arsenate, insecticidal preparations; mordant in dyeing and printing textiles. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120

COPPER ARSENITE (Scheele's Green, Cupric Arsenic, Copper Orthoarsenite, Mineral Green, Swedish Green)

$CuHAsO_3$. M.W. 187.51. Light green, amorp. powd. Decomposes on heating. Sol. acids, alcohol; insol. water. Uses—pigment paint, varnish and wall paper; printing calico; insecticidal compositions; in medicine. Grades—tech.; C.P.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

COPPER BROMIDE

$CuBr_2$. Black, deliq. cryst. or crystalline powd. Sol. alcohol, water, acetone. Uses—intensifier in photography; to replace iodine by bromine in organic synthesis.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

COPPER CARBONATE (Cupric Carbonate, Copper Subcarbonate, Brunswick Green, Bremen Green, Mineral Green, Artificial Malachite, Copper Lasur, Mountain Green)

$Cu_2(OH)_2CO_3$. Dark green powd. Sp. gr. 3.7-4.0. Decomposes on heating. Sol. acids; insol. water. Uses—mfr. copper salts, pyrotechnics; electroplating brass on copper; paint and varnish pigment; insecticide and germicide; coloring metals; astringent in pomades; antidote for phosphorous poisoning. Grades—tech. (50-52% copper, agricultural grade, 18-20%); C.P.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mountain Copper Co, Ltd, 216 Pine St, San Fran, Calif — Exbrook 2-3928
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
†Tennessee Corp, P O Box 2205, Atlanta, Ga — Walnut 4210
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Corona Chem Dir, Milwaukee, Wisc — Miller, Prods Co, Portland, Ore

COPPER CARBONATE BLUE (Sesquicupric Carbonate, Artificial Blue Malachite, Azure Copper, Mineral Hamburg, Mountain Verditer, Bremen Blue)

Basic copper carbonate; composition variable. Blue powd. Sol. dilute acids; insol. alcohol, water. Uses—mfr. pyrotechnics; as pigment; coloring paper; coloring brass blue or black.

Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430

COPPER CARBONATE CUPROUS

Cu_2CO_3. Yellow solid. Decomposes on heating. Sol. alkalies, ammonia. Uses—mfr. copper salts. Grades—tech.

Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610

COPPER CHLORIDE CUPRIC (Cupric Chloride, Copper Bichloride, Copper Dichloride)

a. $CuCl_2$. b. $CuCl_2.2H_2O$. a. Yellow amorp. powd. b. Greenish-blue deliq. Both solids. Sp. gr. a. 3.53. b. 2.47. M.P. a. 422°C. b. Loses water at 100°C. Both sol. water. Uses—deodorizing and desulfurizing petroleum distillate; mfg. organic chemicals, intermediates, pharmaceuticals; in purifying acetylene; electrometallurgy of nickel; copper refining; denitrating rayon; as insecticides; coloring metals; laboratory reagent. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473

COPPER CHLORIDE CUPROUS (Cuprous Chloride)

CuCl. White crystalline powd. Sp. gr. 3.68-3.88. M.P. 425°C. B.P. 954-1032°C. Sol. hydrochloric acid, ammonia, ammonium chloride; insol. water. Uses—mfr. aniline dyes, methyl violet, photographic paper, sympathetic and indelible inks; pyrotechnics, paint pigments; as catalyst; oxidising agent; mordant in dyeing and printing tex-

COPPER CHLORIDE CUPROUS (cont'd)

tiles; wood preservative; water disinfectant; as insecticide; in refining copper; gold and silver metallurgy of mercury and electroplating copper or aluminum; mfg. pure carbon monoxide; in medicine. Grades—tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811

COPPER CHROMATE (Basic Cupric Chromate)

$CuCrO_4.2CuO.3H_2O$. Light brown powd. Sol. dilute acids, chromic acid solution, ammonium hydroxide. Insol. alcohol water. Uses—as mordant in dyeing.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454

COPPER CYANIDE, Cuprous (Cupricin)

Cu_2CN_2. M.W. 179.16. White or grayish-white powd. Sol. ammonium hydroxide, potassium cyanide, hot hydrochloric acid; insol. water, dilute sulfuric acid, cold hydrochloric acid. Uses—mfr. intermediates; copper-brass and alloy gold electroplating; in anti-fouling paints; in medicine.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430

Globe Chem Co, Cincinnati, O

COPPER FLUOBORATE (Cupric Fluoborate)

$Cu(BF_4)_2$. M.W. 237.2. 45% solution dark blue liquid. Uses: in copper and copper alloy plating baths.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

COPPER FLUORIDE

Uses: flux, opacifier in enamel, glass and ceramics; in prep. of brazing, soldering, welding fluxes, in electrical industry.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214

COPPER FORMATE

$Cu(OOCH)_2$. M.W. 153.59. Bluish crystalline powder. Uses: prepn. of catalysts for hydrogenation and isomerization reactions.

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Trojan Powder Co, Allentown, Pa — 45201

COPPER GLUCONATE

$[CH_2OH(CHOH)_4COO]_2Cu$. M.W. 453.87.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

COPPER HYDROXIDE (Copper Hydrate, Cupric Hydroxide, Hydrated Copper Oxide)

$Cu(OH)_2$. M.W. 97.59. Blue, amorp. powd. Sp. gr. 3.368. Decomposes on heating. Sol. acids. Uses—mfr. copper salts, rayon; as mordant in textile dyeing; pigments in paints, varnishes and for staining paper; laboratory reagent. Grades—tech.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653
Mountain Copper Co, Ltd, 216 Pine St, San Fran, Calif — Exbrook 2-3928

COPPER IODIDE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

COPPER LINOLEATE (Cuprous Linoleate)

$Cu(C_{17}H_{33}COO)_2$. M.W. 621.93. Greenish-blue masses. Uses: preservation of cloth, wood, and paint against mildew, dry rot; in paints to prevent growth of barnacles.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Stresen-Reuter, Fred'k A, Inc, 2115 Medill Av, Chicago, Ill — Humboldt 1552
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

COPPER AND ZINC
NAPHTHENATES

CUPRINOL®

Liquid 8% for your own formulations—or blended concentrates of proven and field tested formulas for wood and fabric preservatives ready to use with simple dilution.

CUPRINOL DIVISION, DARWORTH, Inc.
SIMSBURY, CONN.

COPPER NAPHTHENATE

11-13% copper. Green solid. Uses—preservation cloth, wood, paint against mildew, dry rot; in paints to prevent barnacle growth.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Cuprinol Div, Darworth, Inc, Simsbury, Conn — Simsbury 42
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
†Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201

Amer Tar Co, Seattle, Wash
Cole & De Graf, San Fran, Calif
†Ferro Chem Corp, Bedford, O
†Industrial Lining Engrs, Inc, Pittsburgh, Pa
†Mooney Chems, Inc, Cleveland, O
Shepherd Chem Co, Cincinnati, O

COPPER NITRATE (Cupric Nitrate)

a. $Cu(NO_3)_2.3H_2O$. b. $Cu(NO_3)_2.6H_2O$. Blue, deliq. cryst. Sp. gr. (trihydrate 2.047; (hexahydrate) 2.074. M.P. (trihydrate) 114.5°C.; (hexahydrate) 26.4°C. Sol. water, alcohol. Uses—mfr. photographic paper, enamels, paints, varnishes, dyestuffs, insecticidal compositions; in electroplating nickel; coloring copper black; as indigo reserve and mordant in dyeing and printing textiles; burnished effect on paints; in medicine. Grades—tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811

COPPER OLEATE, Cupric—see also Soaps, Metallic

$Cu(C_{18}H_{33}O_2)_2$. Greenish-blue masses. Sol. ether; insol. water. Uses—as drier of paints, varnishes, enamels, etc.; in medicine. Grades—C.P.; tech.

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
†Amer Tar Co, Seattle, Wash — Beier Co, N Y

COPPER OXALATE

$(COO)_2$ Cu. M.W. 151.69. Occurs as the semi-hydrate; bluish-white crystals. Insol. in water. Use—agricultural insecticide.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151

COPPER OXIDE, BLACK (Cupric Oxide, Copper Monoxide)

CuO. M.W. 79.57. Brownish-black, amorp. powd. Sp. gr. 6.40. M.P. 1026°C. Sol. acids; insol. water. Uses—mfr. aromatic acids from cresols, paper, rayon, anti-fouling paints, ceramics, glazes and enamels, electric batteries, synth. precious stones; desulfurizing petroleum; electroplating metals; as germicide and insecticide; laboratory chemical; purification of hydrogen; as catalyst; green color in glass. Grades—tech.; C.P.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
Mountain Copper Co, Ltd, 216 Pine St, San Fran, Calif — Exbrook 2-3928
Phelps Dodge Refg Corp, 40 Wall St, N Y — Whitehall 4-0560

COPPER OXIDE, BLACK (cont'd)

Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Calumet & Hecla Con Copper Co, Calumet, Mich
Hardy, Charles, Inc, N Y
†Metals Refg Co, Hammond, Ind
Vitro Mfg Co, Pittsburgh, Pa

COPPER OXIDE, RED (Cuprous Oxide, Copper Hemioxide, Copper Protoxide, Copper Suboxide)

Cu_2O. Reddish brown, crystalline powd. Sp. gr. 5.76-6.09. M.P. 1235°C. B.P 1800°C. Sol. acids, alkalies; insol. water. Uses—mfr. paper, copper salts, red glass, metallic copper, red ceramics; in enameling and electroplating.

Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
Mountain Copper Co, Ltd, 216 Pine St, San Fran, Calif — Exbrook 2-3928
Phelps Dodge Refg Corp, 40 Wall St, N Y — Whitehall 4-0560
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Metals Refg Co, Hammond, Ind
†Williams, C K, & Co, E St Louis, Ill

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$CuCl_2.2CuO.4H_2O$. Bluish-green powd. Sol. ammonium hydroxide; insol. water. Uses—as green pigment.

†Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

COPPER OXYCHLORIDE SULFATE

Cu 55-57%. Fluffy light blue powder, minute particle size, low apparent gravity. This material is essentially pesta (5) basic. Uses—Agricultural fungicide for dusting, spraying or seed treatment.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Mountain Copper Co, Ltd, 216 Pine St, San Fran, Calif — Exbrook 2-3928
Niagara Chem Div, Food Machy & Chem Corp, Middleport, N Y

COPPER PALMITATE

†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

COPPER 3-PHENYLSALICYLATE

†Dow Chem Co, Midland, Mich — Midland 500

COPPER PHOSPHATE

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

COPPER POWDER

Cu. 99.60% plus. Usually supplied in 100-200-300 mesh.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-49..

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COPPER POWDER (cont'd)

†Amer Metal Co, Ltd, N Y
†Argus Chem Lab, Inc, Bklyn, N Y
†Magna Mfg Co, Inc, Haskell, N J
†Metals Refg Co, Hammond, Ind
†New Jersey Zinc Sales Co, N Y

COPPER PROTEIN

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

COPPER RESINATE (Cupric Resinate)

$Cu(C_{20}H_{30}O_2)_2$. Green, amorp. powd. Sol. ether, oils. Uses—mfr. anti-fouling paints, insecticidal compositions, ceramics; as preservative metal paint. Grades—tech.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Meyer, J. & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
†Strusen-Reuter, Frod'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1532

COPPER RICINOLEATE

†Baker Caster Oil Co, 119 Bway, N Y — Digby 9-0500

COPPER SHOT

Reddish, lustrous metal in pellet or globular form. Becomes dull when exposed to air. Sp. gr. 8.96. M.p. 1,083°C. B.p. 2,310°C. Sol. hot conc. sulfuric acid, hot conc. nitric acid and dilute nitric acid. Slightly sol. in dilute sulfuric acid, ammonium hydroxide and organic acids. V. Slightly sol. in hydrochloric acid. Insol. cold conc. nitric acid, water and alcohol.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Phelps Dodge Refg Corp, 40 Wall St, N Y — Whitehall 4-0560
†Amer Metal Co, Ltd, N Y

COPPER STEARATE (Cupric Stearate)

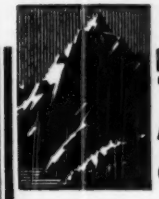
$Cu(C_{18}H_{35}O_2)_2$. Light blue, amorp. powd. Sol. ether, chloroform, benzol, turpentine; insol. water. Uses—mfr. anti-fouling paints; bronsing purposes. Grades—tech.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

COPPER SULFATE (Blue Vitriol, Blue Stone, Blue Copperas, Roman Vitriol, Salzburg Vitriol)

$CuSO_4.5H_2O$. Blue, crystalline powd. or lumps. Efflorescent (when dehydrated almost white). Sp. gr. 2.284 (15°C.). Loses water at 110°C. Sol. water, alcohol. Uses—mfr. copper salts, printing inks, electric batteries, Paris green, Bordeaux mixture, casein glues; as mordant in printing and dyeing textiles; germicide, insecticide and fungicide; laboratory reagent; wood preservative; dehydrating agent (anhydrous form); pigments in paints and hair dyes; copper plating, etching, and in electrolytic baths; in the sweetening process in refining; for drawing wire; process engraving and photo engraving; tanning leather; purifying drinking water and swimming baths; preserving pulpwood and ground pulp; for coloring metals; in medicine. Grades—C.P.; tech.; 99% cryst.; granulated; powdered.

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COPPER SULFATE (cont'd)

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
†Andrews, W R E. Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220

COPPER SULFATE
U. S. P. XIII
American Quinine Co.
15 William Street
New York 5, N. Y.
HAnover 2-7983

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0995
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 5531
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216

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Rittenhouse 6-3875

COPPER SULFATE (cont'd)

Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
European Chem Co Inc, 366 Bway, N Y	Beekman 3-6246
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900

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PHILADELPHIA — BALTIMORE

Hunt, Philip A, Co, Palisades Park, N J	Leonia 4-4000
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
†Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Mountain Copper Co, Ltd, 216 Pine St, San Fran, Calif	Exbrook 2-3928
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735

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Republic Chemical Corp.

94 Beekman Street, New York 7

Cable Address: Jaynivrad

COPPER SULFATE (cont'd)

National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Opalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa	McKeesport 4-4278
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Phelps Dodge Refg Corp, 40 Wall St, N Y	Whitehall 4-0560
Philipp Bros Chemns Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500

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Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Shegard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651
Startweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
★Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200
†Tennessee Corp, P O Box 2205, Atlanta, Ga	Walnut 4210
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

Braun Knecht Heimann Co, San Fran, Calif
Globe Chem Co, Cincinnati, O
Lyon Chems, Inc, St Paul, Minn
Mine & Smelter Supply Co, Denver, Colo
Steidle Chem Co, Louisville, Ky
Ulrich Chem Co, Indianapolis, Ind
Vaughn Chem Co, Tulsa, Okla

COPPER SULFATE BASIC

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa	Rittenhouse 6-3874
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Mountain Copper Co, Ltd, 216 Pine St, San Fran, Calif	Exbrook 2-3928
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
Phelps Dodge Refg Corp, 40 Wall St, N Y	Whitehall 4-0560
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Tennessee Corp, P O Box 2205, Atlanta, Ga	Walnut 4210
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

Corona Chem Div, Milwaukee, Wisc

COPPER SULFATE MONOHYDRATED

When heated to 110°C. $CuSO_4.5H_2O$ loses 4 mol. of water. Uses—mfr. green and blue pigments; sprays for plants; in electrolysis and galvanoplating; as a reagent in the dye industry; in medicine.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa	Rittenhouse 6-3874
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Mountain Copper Co, Ltd, 216 Pine St, San Fran, Calif	Exbrook 2-3928
Phelps Dodge Refg Corp, 40 Wall St, N Y	Whitehall 4-0560
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
★Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200
†Tennessee Corp, P O Box 2205, Atlanta, Ga	Walnut 4210
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531

COPPER SULFIDE (Cupric Sulfide)

CuS. M.W. 95.63. Black powd. Sp. gr. 4.6. Sol. nitric acid. Uses—mfr. anti-fouling paints, varnishes; in dyeing wool and dyeing with aniline black. Grades—tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220

COPPER SULFOCYANIDE (Copper Thiocyanate, Cuprous Sulfocyanide, Cuprous Rhodanate)

CuSCN. Yellowish-white, amorp. powd. M.P. 1084°C. Sol. ammonia. Uses—mfr. organic chemicals, synthetic dyes, drugs, perfumes, anti-fouling marine paints and varnishes; in hydrocyanic acid; printing textiles; as laboratory reagent; reagent in making intermediates.

COPPER SULFOCYANIDE (cont'd)

†City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Halby Chem Co, Inc, Wilmington, Del	

COPPER TARTRATE

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg 5-2151
†City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723

COPPER UNDECYLENATE

†Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
†Mathe Chem Co, 169 Millbank St, Lodi, N J	Prescott 9-4981
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600

COPRA

Dried meat of coconut. Habitat—Ceylon, Java, Philippines, etc. Uses—mfr.; extraction of coconut oil and copra cake and meal.

Atlas Import Co, 510 N Dearborn St, Chicago, Ill	Superior 7-8646
Dalton-Cooper Inc, 200 W 34 St, N Y	Longacre 4-2910

Frey & Co, N Y
Gitlan, Charles, & Co, Inc, N Y
Philippine Refg Corp of N Y, N Y
Talre Trading Co, N Y

COPRA CAKE AND MEAL (Coconut Cake)

Residue from crushing of dried Copra in coconut oil production. Copra meal is ground Copra cake. Analysis shows 19% protein, 6% fat, 11% fibre. Uses—live stock feed.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112

Philippine Refg Corp of N Y, N Y
Snow & Co, Los Angeles, Calif
Winther, S A, & Co, Inc, San Fran, Calif

CORN SUGAR (Dextrose, Glucose, Grape Sugar, Baker's Sugar)

$C_6H_{12}O_6.H_2O$. White, amorp., crystalline powd. Sp. gr. 1.562038 (18°C.). M.P. 140°C. Sol. water. Uses—mfr. confectionery, baked products, vinegar, sweetmeats, marmalades, vegetable foods, food preparations, logwood and dyewood liquors; thickening agent in extracts, tanning liquors and chrome tanning; brewing and wine making; flavoring tobacco; sizing, weighting, and ingredient of printing pastes for textiles, viscose and cuprammonium rayon precipitating baths; in medicine. Grades—Tanners; edible; tech.; C.P.; U.S.P.

†Amer Maize Prods Co, 100 E 42 St, N Y	Murray Hill 3-9200
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
†Corn Prods Refg Co, 17 Battery Pl, N Y	Whitehall 4-0880
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091

Buffalo Extract & Supply Co, Buffalo, N Y
Penick & Ford, Ltd, Inc, N Y

CORN & SOYBEAN PRODUCTS
and
DERIVATIVES

A. E. STALEY MFG. CO.
DECATUR, ILL.

CORN SYRUP (Glucose)

Av. analysis of 43°Bé. material—moisture, 17.70%; reducing sugars (dextrose, maltose) 35.56%; dextrines, and other carbohydrates 46.33%; ash (chiefly common salt) .41%; pH 4.8- 5.0. Uses—confectionery; brewing; tobacco; as a food preservative.

†Amer Maize Prods Co, 100 E 42 St, N Y	Murray Hill 3-9200
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
†Corn Prods Refg Co, 17 Battery Pl, N Y	Whitehall 4-0880
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schor Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
†Staley, A E, Mfg Co, Decatur, Ill	4141
Stein, Hall & Co, Inc, 285 Madison Av, N Y	Murray Hill 9-0800
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091

Penick & Ford, Ltd, Inc, N Y

HERCULES

COTTON LINTERS (PULP)
(BLEACHED)

Best and purest source of cellulose. Viscosities and many other properties as required in bulk and sheeted form.

GM50-3

HERCULES POWDER COMPANY
INCORPORATED
Wilmington, Delaware

COTTON FLOCK

Short pieces of cotton goods approximatelly 1/64" in length. **Uses**—for compositions such as plastics, rubber, etc.; artificial flowers; produce suede finish on plastics, metals, paper.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Composition Materials Co, Inc, 28 W 44 St, N Y — Bryant 9-3277

†Egleston, Wm D, Co, Cambridge, Mass

COTTON LINTERS

Short hairs left after removal of the stable cotton. Mainly cellulose and used for the manufacture of nitrocellulose, cellulose acetate, etc.

†Hercules Powder Co, 978 Market St, Wilmington, Del

†Farmers' Cotton Oil Co, Wilson, N C — Manley, Jr, W C, Memphis, Tenn

COTTONSEED MEAL AND CAKE

Ground cottonseed cake. Light yellow color, sharp, nutty odor. **Uses**—in fertilizer, cattle foods, horse feed.

Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996

†Farmers' Cotton Oil Co, Wilson, N C
Jett, Joseph C, Norfolk, Va
McIver, Alex M, & Son, Charleston, S C
Snow & Co, Los Angeles, Calif
†Southern Cotton Oil Co, N Y
Wilson Brokerage, N Y
Winther, S A, & Co, Inc, San Fran, Calif
Woodward & Dickerson, Inc, Phila, Pa

COUMARIN (Cumarin, Tonka-bean Camphor, Benzopyrone, Orthrohydroxy-cinnamic lactone)

$C_9H_6O_2$. M.W. 146.05. Colorless, crystalline product with an odor resembling new mown hay. M.P. 70°C. Sol. alcohol, ether, chloroform, slightly in hot water. **Uses**—in perfumes, soaps, tobacco, food flavors.

†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dow Chem Co, Midland, Mich — Midland 500
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600

COUMARIN MONSANTO
(Coumarin N.F.)

Fine or large white crystals; odor, characteristic; melt (liquid), clear and colorless; m.p. 68.8° C., 156° F. min.; b.p. 302° F.; solubility in ethyl alcohol (1:10), complete; moisture 0.10% max.; ash 0.05% max.; conforms to N.F. 1 oz. free sample.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.

MONSANTO
CHEMICALS—PLASTICS

SERVING INDUSTRY . . . WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

COUMARIN (cont'd)

Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

Felton Chem Co, Inc, Bklyn, N Y — Zink & Triest Co, Phila, Pa

COUMARONE—see Para-Coumarone

p-COUMARONE (Coumarone Resin, Benzofurane Resin)

C_6H_4CHOCH. Lemon-yellow to brownish-red, solid amorp. Sp. gr. 1.05-1.10. M.P. 45-200°C. Decomposes at 250°C. Sol. ether, coal tar and petroleum solvents, turpentine, acetone, ether, carbon tetrachloride, carbon disulfide, pyridine; insol. alcohol, water. **Uses**—mfr. rubber fillers, chewing gum, paints, varnishes, insulating compositions, enamels, molded goods. Grades—varying.

†Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Smead & Small, Inc, Cleveland, O

Heyden
MEDICINAL CREOSOTES
and GUAIACOLS

CREOSOTE N.F. • CREOSOTE BEECHWOOD
CREOSOTE CARBONATE N.F.
CALCIUM CREOSOTATE
POTASSIUM CREOSOTE SULFONATE
GUAIACOL CARBONATE
GUAIACOL N.F. (Crystals and Liquid)
POTASSIUM GUAIACOLSULFONATE

FINE HEYDEN CHEMICALS

HEYDEN CHEMICAL CORPORATION
393 SEVENTH AVE., NEW YORK 1, N.Y.
CHICAGO 6 • PHILADELPHIA 3 • SAN FRANCISCO 11 • DETROIT 1 • RUMFORD 16, R.I.

CREOSOTE CARBONATE (Cresosotal)

Colorless and yellowish liq., slight creosote odor. Sp. gr. not below 1.145 at 20°C. Insol. water, sol. alcohol. Grades—U.S.P.

Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Eastern Tar Prods Corp, Baltimore, Md

CREOSOTE, COAL-TAR (Creosote Oil, Liquid Patch Oil)

Yellowish to dark green-brown, oily liquid; clear at 38°C or higher. Characteristic odor; poisonous. Mixture of phenols, contains anthracene and naphthalene. Sp. gr. 1.03 (38°C.); distilling range 280° to 400°C. Sol. alcohol, benzene and toluene. **Uses**—wood preservatives, disinfectants, insecticides, and germicides. Grades—tech.

NEVILLE

CREOSOTE OIL

A.R.E.A. and A.W.P.A. grades designed for all types of treatment.

NEVASOTA

Specially refined type of low freeze out for brush and spray application.

THE NEVILLE COMPANY

PITTSBURGH · PA.

CREOSOTE, COAL-TAR (cont'd)

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland	
†Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-2131
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo	Laclede 2201
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

†Amer Tar Co, Seattle, Wash
Bernuth, Lembcke Co, Inc, N Y
Browning, E S, Co, San Fran, Calif
†Colorado Fuel & Iron Corp, Denver, Colo
†Coopers Creek Chem Corp, W Conshohocken, Pa
Crowley Tar Prods Co, Inc, N Y
Dakota Briquets & Tar Prods, Inc, Dickenson, N Dak
†Interlake Iron Corp, Cleveland, O
†Lewis Tar Prods Co, Lyons, Ill
Tar Residuals, Inc, N Y
Van Waters & Rogers, Inc, Portland, Ore

CREOSOTE, WOOD (Creosote)

Mixture of phenols, chiefly guaiacol and cresol. Almost colorless or yellowish, very refractive, oily liquid; characteristic smoky odor; caustic, burning taste. Sp. gr. not below 1.076; boiling range 203°-220°. Sol. water, glycerin, glacial acetic acid, fixed alkali hydroxide solns., miscible with alcohol, chloroform, ether, oils. Uses—medicinals.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg 5-2151
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass	Liberty 2-1870
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo	Laclede 2201
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

CRESOL MIXED (Ortho, Meta and Para)

$CH_3C_6H_4OH$. Ortho—white, crystalline powd., phenol-like odor. Sp. gr. 1.0511. M.P. 30.4°C. B.P. 191°C. Meta—colorless to yellow liq., phenol-like odor. Sp. gr. 1.0419. M.P. 12°C. B.P. 202°C. Para—colorless crystalline, phenol-like odor. Sp. gr. 1.039. M.P. 34.5°C. B.P. 202°C. All sol. ether, alcohol, chloroform. Uses—(Ortho) mfr. coumarin, disinfectants, coumarone, fumigants; (Meta) mfr. photographic developers, nitrocresol and nitrocresol explosives, disinfectant soaps, printing inks, paint and varnish removers; as leather preservative; removing ink from newsprint; solvents and preservative for glues; pastes and grinding compounds; softening and reclaiming rubber; basis in making synthetic resins, perfumes, pharmaceuticals. (Para) mfr. cresotinic acid dyes; disinfectants and fumigants; in medicine. Grades—U.S.P.; tech.; ortho; meta; para.

U·S·S Cresols

Ortho

Meta Para Special Grades

Available in tank cars and 55-gallon drums

COAL CHEMICAL SALES DIVISION

United States Steel Corporation Subsidiaries

71 Broadway, New York 6, N. Y.

USS COAL CHEMICALS

UNITED STATES STEEL

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600

†Productol Co, Santa Fe Springs, Calif

m-CRESOL (m-Methylphenol, m-Hydroxy Toluene)

$CH_3C_6H_4OH$. M.W. 108.06. Colorl. to yel. liquid. Phenol-like odor. Sol. alcohol, ether, sltl. sol. in water. Sp. Gr. 1.037 @ 16° C. B.P. 202° C. Uses—medicinal, disinfectant, fumigant, manuf. synthetic resins, photographic developers, explosives.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364

Reilly

CREOSOTE OIL

THE STANDARD WOOD PRESERVATIVE

Any quantity in drums and tank cars from all plants; also in barges and tankers from Newark, Norfolk, Mobile and Seattle.

TRANSOTE

A highly refined, scientifically blended transparent wood preservative which provides a colorless treatment for the preservation of wood against decay and insect attack. TRANSOTE treated wood is dry—not oily—and after a short aeration period is practically odorless. It can be glued, painted, varnished or finished in any desired manner.

15 PLANTS *to Serve You*

Reilly COAL TAR PRODUCTS

REILLY Wood Preservative Oil

A highly toxic, non-volatile, yet highly penetrating creosote oil for brush, spray, pressure or dip application.

REILLY TAR & CHEMICAL CORPORATION

Merchants Bank Building, Indianapolis 4, Indiana

500 Fifth Ave. New York 18, N. Y. | 2513 S. Damen Ave. Chicago 8, Ill. | St. Louis Park Minneapolis 16, Minn.

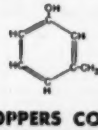
(See our other ads. under Coal Tar and Cresylic Acid)

KOPPERS

meta-CRESOL

GRADE AVAILABLE

95-98% Purity



USES:

Preparation of thymol, fungicides, musk ambrette and other fine chemicals.

KOPPERS COMPANY, INC.

Chemical Division, Pittsburgh 19, Pa.

m-CRESOL (cont'd)

Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa	Atlantic 1-6240
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

o-CRESOL (O-Methyl Phenol)

$CH_3C_6H_4OH$. M.W. 108.13. M.P. 30°C. B.P. 191.3°C.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600
Crowley Tar Prods Co, Inc, N Y	

p-CRESOL

Crystalline mass. Phenol-like odor. Sp. gr. 1.039. M.P. 36°C. B.P. 202°C. Uses—disinfectant, fumigating compositions, cresotinic acid, dyestuffs.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y	Lexington 2-5806
Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

m-CRESOL PURPLE (Meta-cresol-sulfonphthalein)

$C_{21}H_{18}O_5S$. M.W. 382.4. Green crystalline powder. Uses: pH indicator—pH range 1.2 (red) to 2.8 (yellow) and 7.6 (yellow) to 9.2 (purple).

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa	Allegheny 4-8832
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461

CRESOLPHTHALEIN

Reddish-yellow, crystalline powder. Slightly soluble in water, soluble in alcohol. Uses: pH indicator range 8.2-9.8.

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa	Allegheny 4-8832
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550

CRESOL RED (ortho-Cresolsulfonphthalein)

$C_{21}H_{18}O_5S$. M.W. 382.4. Fine, green or reddish brown crystalline powder. Uses: pH indicator - pH range 0.2 (red) to 1.8 (yellow) and 7.2 (yellow) to 8.8 (red).

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa	Allegheny 4-8832

p-CRESYL ACETATE

$CH_3C_6H_4OOCCH_3$. M.W. 150. Colorless liquid. Uses: narcissus compounds.

Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 5-6000
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

CROTONALDEHYDE (Propylene Aldehyde, Butenal, Crotonic Aldehyde)

$CH_3CHCHCHO$. Water white liq., pungent odor, turns yellow on contact with air. Sp. gr. 0.8567 (15.6°C.). B.P. 102°C. Flash Point 127.4°F. Freezing Point—69°C. Miscible with gasoline, benzol, etc. On heating dissolves fats, waxes and rubber. Uses—mfr. quinaldine, rubber accelerators, butyraldehyde, crotonic acid; solvent for varnishes, uncured synth. resins, vegetable and mineral oils; wood distillation of resin, shellac, rosin. Grades—tech. (99%).

Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y	Niagara Falls 2-2307
†Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
★†Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957

CRUDE AROMATICS

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept),	Murray Hill 6-0661
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Walker 5-1110
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Judson 6-0900
†Meer Corp, 318 W 46 St, N Y	Cortlandt 7-1970
†Penick, S B, & Co, 50 Church St, N Y	Rector 2-9810
Republic Chem Corp, 94 Beekman St, N Y	

CRUDE DRUGS

Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
†Meer Corp, 318 W 46 St, N Y	Judson 6-0900
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y	Barclay 7-0943
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870
Howe, W Russell, N Y	Smith Crude Drug & Spice Corp, N Y
Lyon, Julian W, N Y	

BOTANICAL DRUGS

Solid and Powdered Extracts

Oleoresins and Resins

Manufacturers and Millers

MEER CORPORATION

318 West 46 Street • New York 19, N.Y.

Telephone: JUdson 6-0900 • Cable: MERELIS

CRUDE DRUG EXTRACTS

†Meer Corp, 318 W 46 St, N Y	Judson 6-0900
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870
Laist, H R, Co, San Fran, Calif	

CRYOLITE NATURAL (Cryolith, Greenland Spar, Ice Stone, Kryolith)—see also Cryolite, Synthetic

$3NaF.AlF_3$ or Na_3AlF_6 Natural, white, solid crystalline. Sp. gr. 2.90. M.P. 1000°C. Uses—mfr. soaps, ceramics, opaque glass; as pottery glaze and flux.

Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
★Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200

ALCOA CHEMICALS

Activated Aluminas
Calcined Aluminas
Low Soda Aluminas
Tabular Aluminas
Hydrated Aluminas
Aluminum Fluoride
Sodium Acid Fluoride

Sodium Fluoride
Fluoboric Acid
Cryolite

ALCOA ALUMINUM

ALUMINUM COMPANY OF AMERICA
CHEMICALS DIVISION
608 Gulf Building · Pittsburgh 19, Pa.

CRYOLITE, SYNTHETIC (Sodium Aluminum Fluoride, Sodium Fluoaluminate)

Na_3AlF_6. M.W. 210. White crystalline powder. Uses: production of aluminum; opacifier and flux in production of glass and vitreous enamels; insecticide in agriculture.

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa	Atlantic 1-4545
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912

CUBE

Light tan powder. Use—insecticides. Grades—varied depending upon % rotenone content.

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
†Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

†Derris, Inc, N Y

CUDBEAR

McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

CUMIDINE (Pseudocumidine, Trimethyl-Aminobenzene 1:2:4:5, Aminocumene, Cumenylamine, Paraisopropyl-aniline, Amino-Isopropylbenzene)

$C_6H_2(CH_3)_3NH_2$. White, solid crystalline. Sp. gr. 0.9526. M.P. 62°C. B.P. 236°C. Sol. alcohol, ether; insol. water. Uses—mfr. dyestuffs, intermediates, organic chemicals. Grades—tech.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

CUMINIC ALDEHYDE

$C_{10}H_{12}O$. M.W. 148.15. Colorless liq. with odor of cumin. Uses: compounding orris, cassia, violet and hyacinth perfumes.

†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

CUPFERRON (Nitrosophenyl Hydroxylamine, Copperon)

$C_6H_5NNOONH_4$. White, crystalline leaflets. M.P. 163°C. Sol. alcohol, ether, water. Uses: precipitant for metals.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

CUTCH (Gum Catechu, Cachou, Cashoo, Black Catechu, Kutch, Katechu, Japan Earth, Pegu Catechu, Terra Japonica, Gambier)—see also Mangrove Extract

Extract from wood and pods of Acacia catechu and from betel nut. Habitat—India. Comes in extract and solid form. Sol. water. Uses—mfr. protocatechuic acid, boiler compounds; as pigment and mordant in dyeing and printing textiles; tanning leather; weighting silks; staining wood; gold beating; in medicine. Grades—Rangoon; Borneo; solid; tablets; liq.

†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Colony Import & Export Corp, 11 E 44 St, N Y — Murray Hill 2-5160
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900

CYANOACETAMIDE (Nitrilomalonamide, Propionamide Nitrile)

$CNCH_2CONH_2$. M.W. 84. White crystals. Sol. water, alcohol. Uses: organic and pharmaceutical syntheses.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600

CYANURIC CHLORIDE

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100

CYCLAMIN ALDEHYDE

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
† Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

CYCLOHEXANE (Benzene Hexahydride)

C_6H_{12}. M.W. 84.16. Colorless liquid. B.P. 80-81°C. Sp. gr. 0.779 at 20/4°C. Insol. water; sol. in most organic solvents. Uses—solvent; intermediate in organic synthesis.

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

CYCLOHEXANE

Colorless liquid. 85% minimum purity. Raw material for manufacture of other chemicals. Dehydrating agent of oxygenated products. For recrystallization of fine organic chemicals. Solvent for nitrocellulose and self-curing rubber cements. Diluent for vinyl coating application. For printing inks.

ENJAY COMPANY, INC.
15 West 51st St.
New York 19, N. Y.
Write or phone for further information.

ENJAY

CYCLOHEXANE (cont'd)

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400

CYCLOHEXANOL (Hexahydrophenol, Hexalin)

$C_6H_{11}OH$. M.W. 100.09. Colorless, hygroscopic liq., camphor-like odor. Sp. gr. 0.962. M.P. 23.9°C. B.P. 161.5°C. Slightly sol. water. Uses—mfr. nitrocellulose varnishes and lacquers; disinfectants, germicides and insecticides; as general solvent in chemical processes, synthetic rubber, textile soaps, detergents and in deodorizing fish oil soaps; dry cleansing agent; subsitute for camphor in celluloid and plastics; in preserving wood; cutting, boring, drilling and machining oils; wax and encaustic preparations; glazing leather. Grades—tech

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Slater-Robbins, Inc, Long Is City, N Y

CYCLOHEXANOL ACETATE

†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

CYCLOHEXANONE (Ketohexamethylene)

$(CH_2)_5O$. Colorless liq., odor resembles acetone. Pounds per gal. 7.87. Sp. gr. 0.945; refract. index 1.445-1.451; B.P. 154-156°C.; Flash Point 50°C.; F.P. —45°C. Sol. in water up to 5%; sol. in organic solvents, non-toxic. Uses—solvent for nitrocellulose and cellulose acetate; also resins, gums, shellac. Mfr. of shoe and metal polishes; solvent for fats, oils, waxes, crude rubber, cellulose ethers, solvent for basic dyes for lecquers; in paint removers; solvent and dispersing agent for dyes in textile dyeing; in metal degreasing.

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"Hytrol" A Solvent (Cyclohexane)
"Hytrol" O Solvent (Cyclohexanone)
"Hexalin" Solvent (Cyclohexanol)
HYDROGENATED SOLVENTS

Sales Offices in: New York, Chicago, St. Louis

Polychemicals DEPARTMENT
E. I. DU PONT DE NEMOURS & CO. (INC.)
WILMINGTON, DEL.

CYCLOHEXANONE (cont'd)

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Dee & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Eway, N Y — Digby 9-2670
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

CYCLOHEXANONE OXIME

$C_6H_{10}NO$. M.W. 113. White crystalline solid. Sol. ether, ethanol. Uses: intermediate; caprolactum syntheses; fuel additive.

†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121

CYCLOHEXENE (Benzene Tetrahydride)

C_6H_{10}. M.W. 82.14. Colorless liquid. B.P. 83.3°C. Sp. gr. 0.810C. at 20/4°C. Insol. in water and alcohol; sol. in unsaturated cyclic hydrocarbons. Uses—special solvent; intermediate in organic synthesis.

†Dow Chem Co, Midland, Mich — Midland 500
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

CYCLOHEXYLAMINE

$C_6H_{11}NH_2$. M.W. 99. Clear, colorless liq. B.P. at 760 mm. °C., 134.5. Sp. gr. at 25°/15.6°C.; 0.865 approx. Misc. with water in all proportions. Wt. per gal., 7 lbs., approx. Uses: as dyestuff intermediate, solvent emulsifying agent, insecticide, and in organic synthesis. Ship. Class.—chemicals.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

CYCLOHEXYL BROMIDE (Bromocyclohexane)

$C_6H_{11}Br$. M.W. 163. Colorless to slightly yellowish liquid. Uses: pharmaceutical intermediate, source of cyclohexyl radical.

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

CYCLOHEXYLBUTYRATE

Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140

CYCLOHEXYL CHLORIDE

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

o-CYCLOHEXYL PHENOL

$(HO)C_6H_4(C_6H_{11})$. M.W. 176.25. Grayish-white crystalline solid. Phenolic odor. Sp. gr. 1.018 @60°/25°. M.P. 47.3—55.5. B.P. 148°C @ 10 mm. Flash point 273.2°F. Sol. acetone, benzene, ether, carbon tetrachloride. Slightly sol. water.

†Dow Chem Co, Midland, Mich — Midland 500

p-CYCLOHEXYL PHENOL

$C_6H_{11}OH$. M.W. 176.1. Grayish-white fine crystals with faint phenolic odor. B.P. 181°C/25 mm. M.P. 131°C. Sol. alcohol, insol. water. Uses—organic synthesis; phenolic resins.

†Dow Chem Co, Midland, Mich — Midland 500

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

CYCLOHEXYL STEARATE

$C_{24}H_{46}O_2$. M.W. 366.61. Sp. gr. 0.882 at 30°/15.5°C. Refractive index 1.4560 at 30°C. M.P. 26-28°C. B.P. 250-253°C. (20 m.m.), with decomposition. Pale yellow color. Sol. benzene, toluene, acetone, butylacetate, methanol. Insol. water. Uses—plasticizer for natural and synthetic resins in coating compositions.

†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

CYCLONOL

Cyclonol is one of the cyclic acetates. It is practically non-volatile nearly odorless, strongly hydrotropic. Pounds per gal. 8.95; sp. gr. 1.074; refract. index 1.474; B.P. 250°C.; Flash Point 75°C. Non-sol. in water; sol. organic solvents; non-toxic. Uses—as a plasticizer for cellulose acetate for use in lacquers and on preparation of films and sheets of this material; solvent for fats, resins, oils. Used in mfr. soap to produce clear water soluble combinations; increases wetting out, emulsifying and detergent properties of soap; mfr. cleaning compounds.

CYCLONOL (cont'd)

†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110

CYCLOPENTANE

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

CYCLOPENTANONE

†Arapahoe Chems Inc, 2800 Pearl St, Boulder, Colo — 613
†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
Bingham & Co, Inc, N Y

CYCLOPENTENE

C_5H_8. M.W. 68.1. Colorless liquid, characteristic odor. Uses: organic synthesis, plastics.

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419

CYCLOPENTYL BROMIDE

†Arapahoe Chems Inc, 2800 Pearl St, Boulder, Colo — 613
†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

CYCLOPROPANE (Trimethylene)

$CH_2\ CH_2\ CH_2$. M.W. 42.08. Colorless gas. M.P. 126.6. B.P. 34.4. Sol. alcohol, ether. Insol. water. Uses—organic synthesis.

†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Amer Oxygen Service Corp, Harrison, N J — †Ohio Chem & Surgical Equipt Co, Cleveland, Ohio
Edison, Thomas A, Inc, Stuyvesant Falls, N Y

CYMENE (Cymol, Paracymol, Isopropyltoluene, Isopropyltoluol, Paramethylpropylbenzene, Methyl-Isopropylbenzene)

$C_6H_4(CH_3)C_3H_7$. a. Ortho. b. Meta. c. Para. Sp. gr. a. 0.8748. b. 0.862. c. 0.8551. M.P. b. —25°C. c. —75.5°C. B.P. a. 157°C. b. 175.6°C. c. 176.5°C. Sol. alcohol, ether, chloroform; insol. water. Uses—mfr. intermediates and organic chemicals; as solvent in metal polishes synthetic rubber, carvacrol. Grades—tech.

Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Brown Co, Portland, Maine

CYSTEINE

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Ninol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625

CYSTEINE HYDROCHLORIDE

$HSCH_2CH(NH_2.HCl)COOH$. M.W. 157.59. Colorless or white crystals. Uses: medicine.

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Ninol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400
†Lewis, Paul, Lab, Inc, Milwaukee, Wis

CYSTINE

$[SCH_2CH(NH_2)COOH]_2$. M.W. 240.23. White crystalline powder. Slightly soluble in cold, more in hot water; sol. mineral acids, alkali hydroxides; insol. alcohol.

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400

CYSTINE HYDROCHLORIDE

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Ninol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625

DDT (DICHLORO-DIPHENYL-TRICHLORO-ETHANE)

$(ClC_6H_4)_2CHCCl_3$. Colorless cryst, m.p. 89° C. Sol. Freon, kerosene, hydrocarbon solvents; insol. water. Technical DDT is a mixture of several isomers and reaction by-products, although the main constituent is 2,2-bis (p-chlorophenyl)—1,1,1-trichloroethane. The melting point is consequently dependent upon the preponderance of the latter isomer, and some military specifications call for a higher setting point. Uses—insecticide active ingredient. Grades—tech. aerosol and purified.

DDT

BASIC MANUFACTURERS AND FORMULATORS

Technical • Solutions
Emulsifiable Concentrates & Powders

CHEMICAL INSECTICIDE CORP.
57 13th ST. BROOKLYN 15, N. Y. SOuth 8-7141

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in

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Powder & Liquid

Scientific Household and Agricultural Insecticides

COLE LABORATORIES, Inc.
Manufacturing Chemists
42-25 Ninth Street — Long Island City 1, N. Y.

DDT (cont'd)

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa	Rittenhouse 6-3874
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1250
Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
†Chem Insecticide Corp, 57 13 St, Bklyn, N Y	South 8-7141
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331

DDT (cont'd)

Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†General Color Co, Inc, 265 Wright St, Newark, N J	Bigelow 8-2575
†Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Howe & French, 99 Bread St, Boston, Mass	Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490

GENERAL CHEMICAL DDT PRODUCTS

DDT TECHNICAL, finely ground

DDT TECHNICAL, flake

DDT Concentrated Dust Base

DDT Concentrated Spray Powder

GENITOX* S50 (50% DDT Spray Powder)

GENITOX* D50 (50% DDT for making Agricultural Dusts or Insect Powders)

GENICOP* Spray (highly concentrated DDT Insecticide-Neutral Copper Fungicide)

GENITOL* EM-25 (25% DDT Barn, Mill and Potato Spray, Emulsifiable oil solution for use with water)

Other DDT Compounds

*Reg. U. S. Pat. Off.

Offices in Principal Cities—See listing in our Directory ad.

GENERAL CHEMICAL DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.

DDT

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Acid, Isopropyl & Butyl Esters

of

2, 4-D

Exclusive Sales Agents for Montrose Chemical Co.
120 Lister Avenue, Newark 5, N. J.

R. W. GREEFF & CO., INC.
10 Rockefeller Plaza, New York 20, N. Y.
2205 Tribune Tower, Chicago, Ill.

†Kolker Chem Wks Inc, 80 Lister Av, Newark, N J	Market 2-5458
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Michigan Chem Corp, St Louis, Michigan	41
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Mutchler Chem Co, Inc, 256 Bway, N Y	Digby 9-4735
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Powell, John, & Co Inc, 1 Park Av, N Y	Murray Hill 3-1770
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

DDT

100% Technical Grade
Wettable Powder
Dust Concentrates
Emulsifiable Solutions

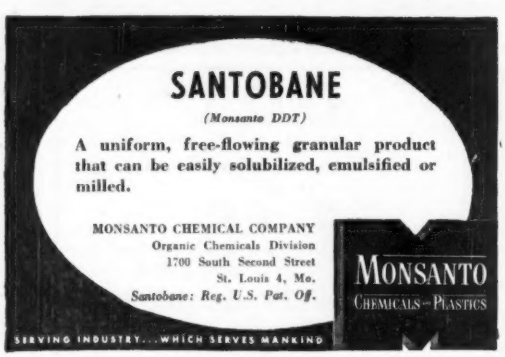
Kolker Chemical Works Inc.
80 LISTER AVENUE • NEWARK 5, N. J.
Manufacturers of Basic Organic Chemicals

†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
†Dow Chem Co, Midland, Mich	Midland 500
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
†Elmer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Fassy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585



DDT (cont'd)

†Riverdale Chem Co, 324 E 147 St, Harvey, Ill	Riverdale 1880
†Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651
★†Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660



For address of nearest District Sales Office see ad in Catalog Section.

Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo	Laclede 2201

†Barium & Chems, Inc, Willoughby, O
Braun Knecht Heimann Co, San Fran, Calif
Colorado Fuel & Iron Corp, Denver, Colo
Corona Chem Div, Milwaukee, Wisc
Empire Chem Corp, N Y
McLaughlin Gormley King Co, Minneapolis, Minn
†Montrose Chem Co, Newark, N J
Niagara Chem Div, Food Machy & Chem Corp, Middleport, N Y
Steele, Ben P, Co, N Y
Wise, Irving, & Co, Inc, N Y



DECAHYDRONAPHTHALENE (Decalin, DeKalin, Bicyclodecane)

($C_{10}H_{18}$). A non toxic clear water-white, colorless liq. Sp. gr. 0.877; pounds per gal. 7.41; B.P. 190°C.; Flash P. 57°C.; F.P. 10°C. Uses—solvent in paint and lacquer industries; mfr. shoe creams, floor waxes.

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939

DECAMETHYLENE DIBROMIDE (1,10-Dibromodecane)

$C_{10}H_{20}Br_2$. M.W. 300.1. Uses: organic syntheses.

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C	2-7419
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Halogen Chems, Inc, 616 King St, Columbia, S C	7125
†Sapon Labs, Bklyn, N Y	

DECAMETHYLENE GLYCOL (1,10-Dihydroxydecane)

$C_{10}H_{22}O_2$. M.W. 174.27. White crystals. M.P. 74° C. Uses: organic syntheses.

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C	2-7419
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Halogen Chems, Inc, 616 King St, Columbia, S C	7125
†Hardesty Chem Co, Inc, 41 E 42 St, N Y	Murray Hill 2-6270

n-DECYL BROMIDE

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C	2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C	7125
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500

DECYL CHLORIDE (1-Chlorodecane)

$C_{10}H_{21}Cl$. M.W. 176.73. Clear colorless liquid. Uses: source of decyl group in organic syntheses.

†Halogen Chems, Inc, 616 King St, Columbia, S C	7125

DEGRAS (Wool Grease, Sod Oil, Tanning Grease, Leather Grease)

Dark brown, solid amorp., disagreeable odor. Natural. Obtained by washing sheep's wool. Sp. gr. 0.932‡-0.9449. Solidification point 38-40°C. Saponification No. 84-127. Iodine No. 18-21.5. Acid No. 0.5-4.3. Sol. alcohol, ether, benzol. Uses—mfr. lanolin, leather stuffing and dressing compositions, printing inks, belt dressings, varnishes, soaps. Grades—American; English; Moellen; neutral.



Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 3-2712
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Doggett, Stanley, Inc, 75 Varick St, N Y	Walker 5-1051
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756



DEGRAS (cont'd)

McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Malmstrom, N I, & Co, 147 Lombardy St, Bklyn, N Y — Evergreen 8-7626
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184

†Amer Lanoline Corp, Lawrence, Mass
†Blum, Paul, Co, Buffalo, N Y
Cooper, T G, & Co, Inc, Phila, Pa
Hueston, C L, Detroit, Mich
†Lanaeter Prods, Inc, Elizabeth, N J
Trask, Arthur C, Co, Chicago, Ill
†Whitman, William, Co, Inc, N Y

DEGRAS, MOELLON

Grease by-product from tanning chamois leather. Varying constants. Uses—stuffing leather, belt dressing, tanning. Grades—anhydrous, 20, 30, 35% water.

Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

DENATURANTS ALCOHOL

Chemicals specified by the Bureau of Internal Revenue, U. S. Treasury Dept., to be added to ethyl alcohol, sold tax free for industrial purposes, to render it unpotable. A number of denaturing formulas are approved by the Bureau to meet particular manufacturing requirements. Complete data are available from the Bureau or from the industrial alcohol producers.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

DERRIS

Leaves of *Derris uliginosa*, found in the South Sea Islands. Contains tubatoxin and a series of acid resins which make it poisonous to lower forms of life but not to human beings. Used as a base for manufacture of insecticides, sprays, etc.

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
†Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

Busschaert, P S, Inc, N Y
†Derris, Inc, N Y
Howe, W Russell, N Y

SUMNER CHEMICAL

MANUFACTURERS OF

Desoxyephedrine, Base and Salts

Amphetamine, Base and Salts

Barbituric Acid Derivatives

Phenetsal

SUMNER CHEMICAL COMPANY, INC.

General Sales Offices:

52 Wall Street, New York 5, N. Y.

Plant: **Zeeland, Michigan** — *Research Laboratories:* **Elkhart, Indiana**

DESOXYEPHEDRINE (N-Methyl-b-Phenylisopropylamine, N-Methylamphetamine, 2-Methylamino-1-Phenylpropane)

$C_6H_5CH_2CH(NHCH_3)CH_3$. M.W. 149.23. B.R. 209-213° C. Uses: pharmaceutical.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Hexagon Labs, Inc, 3536 Pearlee Av, Bronx, N Y — Fairbanks 4-7550
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Sumner Chem Co, Inc, 52 Wall St, N Y — Digby 4-3880

†Arenol Chem Corp, Long Is City, N Y
†Procaine, Inc, N Y
†Red Star Chem Co, Inc, Long Is City, N Y

DEUTERIUM

Stuart Oxygen Co, San Fran, Calif

DEXTRIN (Amylin, British Gum, Starch Gum, Vegetable Gum, Gommeline, Gumeline, Synthetic Gum, Leiocom, Sago Dextrin, Tapioca Dextrin)

Yellow or white solid amorp. Sol. water; insol. alcohol, ether. Uses—mfr. beer, pyrotechnics, matches, food and baked products, confectionery, liquid and cold water glues, pastes, adhesives, distilled liquors, dyeing, bleaching and finishing preparations; polishing rice, cereal grains and coffee; decorating porcelains and potteries; silvering mirrors; substitute for gums; in printing and lithographing inks; as thickener in tanning extracts, shoemaker's paste, paper glaze and size, color paste in wall paper and mordants; engraving; textile size; dressing and finishing agent; stiffening agent; felts, etc.; in medicine.

†Amer Maize Prods Co, 100 E 42 St, N Y — Murray Hill 3-9200
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
†Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Schw Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

†Arabol Mfg Co, N Y
Burtonite Co, Nutley, N J
Penick & Ford, Ltd, Inc, N Y

Morningstar

DEXTRINES

TAPIOCA . . POTATO . . CORN

WHITE • YELLOW • SOLUBLE

Grades available for all industrial uses, including: *Adhesives • Sizings • Envelope Gums • Flat Gumming • Gum Tape • Textile Sizing • Paper Converting •* Food Grades also available. Write us regarding your requirements.

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DEXTRIN, CORN

†Amer Maize Prods Co, 100 E 42 St, N Y — Murray Hill 3-9200
†Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
†Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 3-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800

†Arabol Mfg Co, N Y
Burtonite Co, Nutley, N J
Penick & Ford, Ltd, Inc, N Y

DEXTRIN, POTATO

Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
†Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800

†Arabol Mfg Co, N Y
Burtonite Co, Nutley, N J

DEXTRIN, TAPIOCA

Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
†Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800

†Arabol Mfg Co, N Y
Burtonite Co, Nutley, N J

DEXTROSE, Anhydrous (Dextro-Glucose)

Av. analyses, dextrose 99.8%, moisture 0.2%. Uses—mfr. confectionery, carbonated beverages, bakery products, ice cream powd., pudding powd., gelatin desserts.

†Amer Maize Prods Co, 100 E 42 St, N Y — Murray Hill 3-9200
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
†Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505

DEXTROSE ANHYDROSE C.P.

GALLARD SCHLESINGER CHEMICAL CORP.

92-94 LIBERTY ST., NEW YORK 6, N.Y.

RECTOR 2-0262 CABLE: GALLARDKEM

DEXTROSE (cont'd)

†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
†Corn Prods Refg Co, 17 Battery Pl, N Y	Whitehall 4-0880
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J	Prescott 7-5805
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Tutuer & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091

Dehls & Stein, Inc, Newark, N J †Lewis, Paul, Lab, Inc, Milwaukee, Wis

DEXTROSE, Hydrate

Av. analyses, dextrose 91.55%, other sugars 0.40%; mineral substance 0.05%; moisture 8.00%. Uses—food, brewing, pharmaceutical, explosive industries.

†Amer Maize Prods Co, 100 E 42 St, N Y	Murray Hill 3-9200
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Corn Prods Refg Co, 17 Battery Pl, N Y	Whitehall 4-0880
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

Fine Chemicals BPC

DIACETYL

BENZOL PRODUCTS CO.

237 SOUTH STREET NEWARK 5, N. J.

DIACETYL (Butandione, Biacetyl)

$CH_3CO\text{-}CO\text{-}CH_3$. Yellow liq. Sp. gr. 0.997 (15°C.). B.P. 86-90°C. M.P. —5 to —4°C. Sol. in water, 74 gr. in 100 gr. of water at 28°C. Uses—is carrier of the aroma of butter, vinegar, coffee, honey, etc. Grades—one grade, 90% or over diacetyl.

†Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
†Lucidol Div, Nevadel-Agene Corp, 1740 Military Rd, Buffalo, N Y	Victoria 1740
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110

DIACETYLAMINOAZOTOLUOL

$C_{25}H_{25}N_5O_2$. M.W. 309.17. Orange red powder. Uses: medicinal.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818

DIACETYL MONOXIME

†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550

DIALKYL PHOSPHATES

R_2HPO_4. Exemplified by diamyl hydrogen phosphate, and mixed esters such as octyl amyl hydrogen phosphate and butyl amyl hydrogen phosphate, these compounds are liquids which are sparingly soluble in water, and soluble in alcohol and vegetable oils. With increasing molecular weight, they become soluble in petroleum oils.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541

DIALLYL PHTHALATE

$C_6H_4(CO_2CH_2CH{:}CH_2)_2$. M.W. 246. Mild, slightly lachrymatory odor. Uses: in mfg. of low pressure laminates and castings.

Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Ohio-Apex Inc, Nitro, W Va	Nitro 152
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420

DIALLYL SUCCINATE

$(CH_2COOC_3H_5)_2$. M.W. 198.21. Colorless, oily liquid; mild odor. Insol. water; sol. benzene, alcohol, ether, etc. Uses: plasticizer.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919

DIALLYL SULFIDE

†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919

DIAMANTINE

†Linick Chem Co, Chicago, Ill

m-DIAMINOANISOLE

†Verona Chem Co, 26 Verona Av, Newark, N J Humboldt 3-3200

DIAMINOPHENOL HYDROCHLORIDE (Amidol, Diamidophenol)

$(NH_2)_2C_6H_3OH.2HCl(1,2,4)$. M.W. 197.01. White or grayish-white cryst. Slightly sol. alcohol; easily sol. water. Uses—photo developing; dyeing furs and hair.

†Verona Chem Co, 26 Verona Av, Newark, N J Humboldt 3-3200

2,6-DIAMINO PYRIDINE

†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind Market 9461

DIAMYLAMINE

$(C_5H_{11})_2NH$. M.W. 157.19. Dist. Range 180-205°C. Sp. gr. 0.787 (20°C.). Viscosity 0.01264 Poise. Refract. Index 1.4262 (19°C.). Sur. Ten. 24.4 Dynes/cm. Sp. Heat at room temp., 0.54 cal./gram. Heat of Vap., 83 cal./gram. Coeff. of Exp. 0.00102 (20-60°C.). Flash Point, 124°F. Sol. very slightly in water. Uses—reacts with organic acids to make emulsifying compounds; reacts with various sulfur derivatives of use in rubber, mining and steel industries; solvent for oils, resins, several cellulose esters.

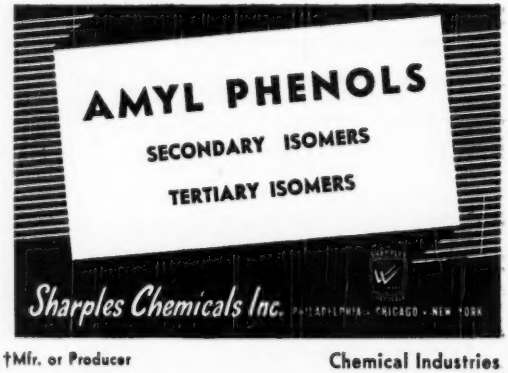
†Sharples Chems Inc, Phila, Pa Kingsley 5-2802

DI-tert-AMYL DISULFIDE

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600
†Sharples Chems Inc, Phila, Pa	Kingsley 5-2802

DIAMYL NAPHTHALENE

†Sharples Chems Inc, Phila, Pa Kingsley 5-2802



DI-secondary-AMYLPHENOL

$(C_5H_{11})_2C_6H_3OH$. M.W. 235. Light straw color. Sol. most organic solvents. Uses: syntheses of plasticizers, insecticides, textile assistants, pharmaceuticals.

†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

DI-tert-AMYL PHENOL

$(C_5H_{11})_2C_6H_3OH$. M.W. 234.37. Light yellow to brown. B.R. 275-310° C. Uses: intermediate; surface active compounds; resin mfg.; lubricating oil additives and rubber chemicals.

†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

DIAMYLPHENOL

Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550

DIAMYL PHOSPHATE

†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

DIAMYL TARTRATE

$(C_5H_{11})_2$ $C_4H_4O_6$; Mol. wt. 290.20; straw color; Sp. Gr. 1.054^{20}; decomposes on heating.

†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

DIANISIDINE (Dimethoxybenzidine, Bianisidine)

$C_{14}H_{16}O_2N_2$. 1:3:4. White crystalline needles. M.P. 172°C. Sol. alcohol, ether. Uses: mfr. azo dyes, intermediates. Grades—tech.

†Carwin Co, Stiles Lane, North Haven, Conn — New Haven 2-2161
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Murbas Trading Co, N Y

DIANISIDINE

The Carwin Company manufactures

Dianisidine Base and

Dianisidine Sulphate

of excellent quality

THE CARWIN COMPANY • NORTH HAVEN, CONN.

Phone: New Haven 2-2161

DIASTASE (Diastafor, Diastasum, Amylase, Diamalt)

Yellowish white to brownish white, solid, amorp. Natural. Sol. water. Uses—solubilizing size in gray goods before printing; converting starch into sugar; solubilized starch into sugar; solubilized starch glues and adhesives; leavening agent in bread making; in medicine. Grades—dry; liq.; numerous qualities as to use.

Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
†Takamine Lab, Inc, 153 Arlington Av, Clifton, N J — Prescott 9-4776

DIATOMACEOUS EARTH (Fossil Flour, Infusorial Earth, Kieselguhr, Tripoli Powder, Guhr, Tellurine, Terra Silicea, Tripolite)

White, amorp. powd. Natural. Sp. gr. 0.24-0.34—also more correctly known as diatomaceous silica. Sol. hydrochloric acid. Uses—mfr. dynamites, matches, pyrotechnics and match box striking compositions, metallurgical solutions, shellacs, water glass, silica, disinfectant preparations, sealing wax compositions, roofing materials, composition tile, brick, artificial stones, concretes, curtain cloth, plastics, papier mache, ultramarine, abrasive soaps, ceramics, rubber filler; as catalyst substratum; filler in absorption towers and casein glues; filtering medium in chemical processes; abrasive in metallic polishing compositions; fireproofing agent in safes, cooking stoves, textiles, etc.; heat insulator in pipes, boiler kilns, oil tanks, refrigerators, evaporators, stills, etc.; in filtering, decolorizing and clarifying varnishes, glues, adhesives, soaps, pharmaceutical serums, fruit juices; tanning leather; cleaning and polishing pwrs. for furniture, tile, porcelain enameled ware, tooth pwrs., tooth pastes, manicuring pwrs. and glass ware polishes. Grades—tech.; U.S.P.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365

Celite DIATOMACEOUS EARTH

The Johns-Manville deposit of diatomaceous earth at Lompoc, California, is the largest and purest known. It is the source of many Celite products which have wide application in the chemical and process industries.

CELITE FILTER AIDS provide maximum flow rates with required clarity in the filtering of scores of products, from sugar and syrups to drugs and lubricants.

CELITE MINERAL FILLERS, used in many industrial processes, provide high absorption, light weight, large surface area, low refractive index and superior suspension.

Johns-Manville

22 EAST 40th STREET NEW YORK 16, N. Y.

JM

DIATOMACEOUS EARTH (cont'd)

Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Colonial Chem Co, Seattle, Wash
†Dicalite Div, Los Angeles, Calif
†Eagle Picher Co, Cincinnati, O
Klemm, Emil, Inc, Salt Lake City, Utah
†Moore & Son, Tucson, Ariz

p-DIAZODIETHYLANILINE

†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

p-DIAZODIMETHYLANILINE ZINC CHLORIDE (Double Salt)

$(CH_3)_2N\text{-}C_6H_4\text{-}N{=}Cl\cdot ZnCl_2$. M.W. 319.9. Yellow to orange (light sensitive) crystals. Uses: rapid dimotype coupler in coatings for light-sensitive paper.

†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

DIBENZYL DISULFIDE

$(S.CH_2C_6H_5)_2$. M.W. 246.4. Fine, white powder. Insol. water; sol. ether, benzene, hot ethanol. Uses: rubber accelerator; intermediate.

†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

DIBENZYL ETHER OF HYDROQUINONE

$C_6H_5\text{-}CH_2O\text{-}C_6H_4\text{-}CH_2O\text{-}C_6H_5$. M.W. 274.20. Tan powder. M.P. 119°C min. Insol. water. Uses: high boiling, inert solvent; in perfmues, cosmetics, soap, plastics, and pharmaceuticals.

†Goodrich, B F, Chem Co, Cleveland, O

DIBENZYL SEBACATE

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270

p-DIBROMOBENZENE (Benzene Dibromide, Para)

$C_6H_4Br_2$. Colorless cryst. M.P. 86°C. B.P. 219°C. Sol. alcohol, benzene, chloroform, ether; insol. water. Uses—mfr. intermediates, organic chemicals, synth. dyestuffs and drugs. Grades—tech.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

DIBROMOCHLOROMETHANE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
†Michigan Chem Corp, St Louis, Michigan — 41

DIBROMODICHLOROMETHANE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
†Michigan Chem Corp, St Louis, Michigan — 41

o-DIBROMOETHYLBENZENE

†Dow Chem Co, Midland, Mich — Midland 500

DIBROMO FLUORESCEIN

†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
La Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

2,6-DIBROMO PYRIDINE

†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

DIBROMOTHYMOL SULFONPHTHALEIN (Brom Thymol Blue)

$C_{31}H_{28}O_5SBr_2$. M.W. 624. Light pink-red crystals. Uses: indicator for colorimetric pH estimation.

†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8832
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

DIBROMOTYROSINE

Lo Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

DIBUTOXY ETHYL ADIPATE

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

DIBUTOXY ETHYL PHTHALATE

$C_6H_4(COOC_2H_4O.C_4H_9)_2$. M.W. 366. B.P. at 4mm. 220-230°C.; Sp. gr. at 20°C. 1.063. Lbs. per gal. 8.86. Water-white, neutral ester. Uses: solvent for Vinylite and nitrocellulose; fast to light; good water resistance; plasticizer for molding Vinylite and for permanent flexible nitrocellulose films; solvent for many resins.

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

DIBUTOXY ETHYL SEBACATE

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270

†Deecy Prods Co, Cambridge, Mass

n-DIBUTYLAMINE

$(C_4H_9)_2NH$. Water-white liq. B.P. 161°C. Sp. gr. at 20°C., 0.765. Partly sol. water, miscible with most organic solvents. Uses—in mfr. rubber vulcanization accelerators, flotation agents, dyestuffs and corrosion inhibitors.

Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

DIBUTYL "CELLOSOLVE"* PHTHALATE

*(*Reg. Trade Mark—Carbide & Carbon Chemicals Inc.)*

$(C_8H_9)_2SO_4$. M.W. 154.14. Colorless liq., peppermint odor. Sp. gr.
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

4, 6-DI-TERTIARY-BUTYL-m-CRESOL

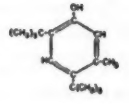
$C_{15}H_{24}O$. M.W. 220. M.P. 62.5°C. B.P. about 285°C. Light colored, crystalline, semi-solid of mild odor. Insoluble in caustic alkali solutions, slightly soluble in water. 4,6-di-tertiary-butyl-m-cresol is used as a plasticizer for surface coatings, synthetic rubber polymers and is of interest as an antiskinning agent for paints.

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240

KOPPERS

Di-tert-BUTYL-meta-CRESOL

USES: As an intermediate for the production of rubber chemicals, modified phenolic resins, synthetic musks of the ambrette type, and as a tackifier and softener for GR-N synthetic rubbers.



KOPPERS COMPANY, INC.
CHEMICAL DIVISION
Pittsburgh 19, Pa.

DI-tert-BUTYL-m-CRESOL

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

DI-tert-BUTYL-p-CRESOL

2,6-$(CH_3)_3$-$C_6CH_3C_6H_2OH$. M.W. 208.84. Light-colored crystalline solid. Insol. in alkalies. Uses: anti-oxidant for hydrocarbon materials, lubricating-oil additive, stabilizer of gasoline for prevention of gum formation, non-staining rubber anti-oxidant, stabilizer for insecticidal preparations.

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240

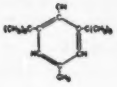
DI-tert-BUTYL DISULFIDE

$(CH_3)_3CSSC(CH_3)_3$. M.W. 178. Uses: organic synthesis; pharmaceuticals, insecticides, fungicides, solvent, polymerization modifiers; additive in rubber and plastics.

KOPPERS

Di-tert-BUTYL-para-CRESOL

USES: As an antioxidant for hydrocarbon materials; as a lubricating oil additive; as a stabilizer of gasoline for the prevention of gum formation; as a non-staining rubber antioxidant; as a stabilizer for insecticidal preparations; as an anti-oxidant for fats and greases.



KOPPERS COMPANY, INC.
CHEMICAL DIVISION
Pittsburgh 19 Pa.

DI-tert-BUTYL DISULFIDE (cont'd)

Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

Phillips 66 CHEMICALS

DITERTIARY DISULFIDES

Butyl • Amyl • Hexyl • Octyl • Dodecyl

PHILLIPS PETROLEUM COMPANY

Chemical Products Department

BARTLESVILLE, OKLAHOMA

n-DIBUTYL ETHER

$C_4H_9OC_4H_9$. M.W. 130.14. Water-white, chemically stable liq. Mild ethereal odor. Misc. most common organic solvents. Water, dibutyl ether, mutually insol. and immiscible. Good solvent for a wide variety of substances, including ester gum, dammar gum, rosin, vegetable and essential oils, and for acetic, propionic, benzoic, salicylic and stearic acids. Not a solvent for nitrocellulose even in combination with alcohols. Sp. gr. 0.769 to 0.772 at 20°C./20°C. Dist. range, 130°C. to 146°C., at least 90% between 138°C. and 145°C. Uses—as extractant or precipitant in a variety of purification processes, and as a solvent medium in a variety of chemical syntheses.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

DIBUTYL MALEATE

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

Di-tertiary-butyl Peroxide

SHELL CHEMICAL CORPORATION

500 Fifth Avenue, New York 18
100 Bush Street, San Francisco 6

Los Angeles • Houston • St. Louis • Chicago • Cleveland • Boston • Detroit • Newark

DI-tert-BUTYL PEROXIDE

†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Extbrook 2-5400

DIBUTYL PHTHALATE

Specifications: Clear, oily, liquid; color (APHA) 20 max.; odor, slight characteristic; acidity (as phthalic acid) 0.01% max.; sp. g. 25°/25° C. 1.045 ± 0.001; refrac. index at 25° C., 1.4905 ± 0.001; assay (ester content) 99% min.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.

MONSANTO
CHEMICALS—PLASTICS

SERVING INDUSTRY... WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

DIBUTYL PHTHALATE

$C_6H_{22}O_4$. Water-white, oily liq. Mixes with all proportions of 60° gasoline without turbidity. Free acid as phthalic, not over 0.05 per cent. Sp. gr. 1.046-1.050. B.P. 340°C. Uses—as plasticiser in plastics and lacquers; lubricating agent; solvent for perfume oils; perfume fixative. Grades—tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-7221
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chemstar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200

dibutyl phthalate

• Eastman dibutyl phthalate is a clear, colorless liquid with excellent light and heat stability. It is the most widely used plasticizer for cellulose nitrate and is particularly desirable in cellulose nitrate lacquers because of its high dilution ratio with petroleum naphtha. Available in drums, compartmented and full tank cars.

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Co.)
KINGSPORT, TENNESSEE

EASTMAN INDUSTRIAL CHEMICALS

Sales Reps in principal cities—see ad in Catalog Section.

De Bear Inc, 636 11 Av, N Y — Plaza 7-3960
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950

DIBUTYL PHTHALATE (cont'd)

Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Phillips & Martin Co, Chicago, Ill — Wilhoff, David L, Co, N Y

DIBUTYL SEBACATE

$(CH_3)_2(COOC_4H_9)_2$. M.W. 314.45. Insol. water; odorless, tasteless. Uses: plasticizer; rubber softener.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661

DIBUTYL TARTRATE

$CO_2C_2H_2(CHOH)_2CO_2C_4H_9$. M.W. 262.17. Uses—solvent and plasticizer for plastics.

Aceto Chem Co Inc, 32 Beaver St, N Y — Digby 4-9760
†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

Robie, Milton F, S Braintree, Mass

1,3-DIBUTYL THIOUREA

†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

DICALCIUM BONE PHOSPHATE

$CaHPO_4$. Impure dicalcium phosphate or bone phosphate of lime. Uses—as raw fertiliser material.

†Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903

Wessel-Duval Co, N Y

DI-CAPRYL ADIPATE

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270

DI-CAPRYL PHTHALATE

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481

DI-CAPRYL SEBACATE

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270

DI"CARBITOL"* PHTHALATE

(*Reg Trade-mark—Carbide & Carbon Chemicals Corp)

Primary plasticizer for cellulose plastics, vinyl resins, other resins. Recommended where permanent flexibility, low oil extraction, resistance to U-V light and easy processing are required.

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420

DI-"CELLOSOLVE"* PHTHALATE

(*Reg Trade-mark—Carbide & Carbon Chemicals Corp)

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420

DICHLOROANILINE (Aminodichlorobenzene, Dichlorophenylamine)

$Cl_2C_6H_3NH_2$. M.W. 191.96. M.P. 39-71.5°C., depending upon structure. B.P. 245-272°C. at 759 mm., depending upon structure. Sol. alcohol, ether, very slightly sol. water; sol. organic solvents. Uses—as dye intermediate.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

p-DICHLOROANILINE

$Cl_2C_6H_3NH_2$ M. W. 162.02 Rhomoic crystals. Slightly sol. in water. Sol. in alcohol and ether. Uses—dye intermediate and organic synthesis.

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

2,4-DICHLOROBENZALDEHYDE

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

3,4-DICHLOROBENZALDEHYDE

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

DICHLOROBENZENE (Mixed) (Benzene Dichloride)

$C_6H_4Cl_2$. M.P. 53°C. B.P. 174°C. Sol. hot absolute alcohol, benzene, chloroform, ether, carbon bisulfide; insol. water. Uses—as insecticide and disinfectant, particularly for moths, roaches, flies, mosquitoes, etc. Grades—tech.

†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201

PARADI*

Other Chlorobenzenes:
Monochlorobenzene
Hexachlorobenzene
Orthodichlorobenzene
1, 2, 4-Trichlorobenzene

**Reg. Trade Mark for Paradichlorobenzene*

HOOKER ELECTROCHEMICAL CO.
4715 Buffalo Ave., Niagara Falls, New York
New York, N.Y. • Tacoma, Wash. • Wilmington, Calif.

WRITE FOR GENERAL PRODUCTS LIST

HOOKER CHEMICALS

For listings of other products see Catalog Section ad.

ortho-
DICHLOROBENZENE
Technical

Characteristics: Colorless to slightly yellow liquid; crystallizing point, minus 7.0° C. max.; distilling range: 1st drop, 175° C. min.; 100% (1st drop—dry point), 14.0° C. max.; sp. g. 15.5°/15.5° C., 1.305-1.313; composition, 75-85% *ortho*-dichlorobenzene, 15-25% *para*-dichlorobenzene.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.

MONSANTO
CHEMICALS—PLASTICS

SERVING INDUSTRY...WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

o-DICHLORBENZENE—see also Dichlorobenzene (Mixed)

$C_6H_4Cl_2$. M.W. 146.95. Colorless liq. Sp. gr. 1.3254 (0°C.). M.P. —17.6°C. B.P. 179°C. Sol. alcohol. Uses—mfr. dyes, intermediates, organic chemicals; as general solvent; solvent for lacquers, varnishes, waxes, ether; removing sulfur from illuminating gas; in fumigating; in preserving paints. Grades—tech.

†Chem Prods Corp, Cartersville, Ga — Cartersville 798
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Niagara Alkali Co, 60 E 42 St, N Y — Murray Hill 2-8090
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655

SOLVAY PRODUCTS

Para-Dichlorobenzene
Controls Moth Damage and Objectionable Odors
AVAILABLE IN 4 DIFFERENT GRADES

Ortho-Dichlorobenzene
for Sprays, Odor Control, Termite Control
IN TANK CARS AND DRUMS

Write for Folder

SOLVAY SALES DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street, New York 6, N. Y.

BRANCH SALES OFFICES:
Boston • Charlotte • Chicago • Cincinnati • Cleveland • Detroit • Houston
New Orleans • New York • Philadelphia • Pittsburgh • St. Louis • Syracuse

o-DICHLORBENZENE (cont'd)

†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Sessions-Gifford Co, Inc, 255 Aliens Av, Providence, R I — Hopkins 1-0770
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

†Solvent Chem Co, Inc, Malden, Mass
†Standard Chlorine Chem Co, Inc, So Kearny, N J

PARA DICHLORO BENZENE
FIVE CRYSTAL SIZES

ORTHO DICHLORO BENZENE
55 GAL. DRUMS - - TANK CARS
also
MONOCHLORO BENZENE
TANK CARS - - 55 GAL. DRUMS

OTHER PRODUCTS:

BARIUM CARBONATE
BARIUM CHLORIDE Crystal & Anhydrous
BARIUM SULFIDE
SODIUM SULFIDE Flakes & Solid
SODIUM SULFHYDRATE
AMMONIUM SULFIDE

All Manufactured By

CHEMICAL PRODUCTS CORPORATION
CARTERSVILLE, GEORGIA

p-DICHLOROBENZENE (Paradichlorobenzol)—see also Dichlorobenzene

$C_6H_4Cl_2$. M.W. 146.95. Colorless cryst., pleasant odor. Sp. gr. 1.458. M.P. 53°C. B.P. 173°C. Vapor Pressure 1.5-2 mm. of mercury. Sol. alcohol, benzene, carbon, bisulfide, ether. Uses—mfr. dyestuffs, intermediates, organic chemicals, insecticidal and germicidal compositions; as deodorant; fumigating soil; mothproofing agent. Grades—tech.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
†Chem Prods Corp, Cartersville, Ga — Cartersville 798

PARADICHLOROBENZENE

JOHN A. CHEW
Incorporated
INDUSTRIAL AND FINE CHEMICALS
60 East 42nd Street, New York 17, N. Y. MU 2-0993

p-DICHLOROBENZENE (cont'd)

Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Dow Chem Co, Midland, Mich — Midland 500
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

PARADOW*
(PARADICHLOROBENZENE)
DOW
THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products
Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.
*Trademark Reg. U.S. Pat. Off. See listing ad for other products

Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Dibby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
Niagara Alkali Co, 60 E 42 St, N Y — Murray Hill 2-8090

SANTOCHLOR
(para-Dichlorobenzene)
Characteristics: White crystals; crystallizing point, 52.8° C. min.
Standard Crystal Sizes: No. 1 (nuggets); No. 0 (medium); No. 34 (rice size); Blocking mix; Fines.
MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.
Santochlor: Reg. U.S. Pat. Off.
MONSANTO CHEMICALS—PLASTICS
SERVING INDUSTRY... WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

p-DICHLOROBENZENE (cont'd)

Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3653
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7580
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Great Lakes Chem Co, Chicago, Ill
Slater-Robbins, Inc, Long Is City, N Y
†Solvent Chem Co, Inc, Malden, Mass
Standard Chem Co, Phila, Pa
†Standard Chlorine Chem Co, Inc, So Kearny, N J

DRUG CHEMICALS — OILS WAXES
PARADICHLOROBENZENE
SODIUM ACETATE ANHYDROUS
ROSENTHAL BERCOW CO., Inc.
25 EAST 26th ST. NEW YORK 10, N. Y.
CABLE ADDRESS "MODRUG"

3,3-DICHLOROBENZIDINE HYDROCHLORIDE

†Carwin Co, Stiles Lane, North Haven, Conn — New Haven 2-2161
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1340

2,4-DICHLOROBENZOTRICHLORIDE

Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

3,4-DICHLOROBENZOTRICHLORIDE

Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

2,4-DICHLOROBENZOYL CHLORIDE

Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

3,4-DICHLOROBENZOYL CHLORIDE

Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

2,4-DICHLOROBENZYL CHLORIDE

†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

3,4-DICHLOROBENZYL CHLORIDE

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

DICHLORODIFLUOROMETHANE

CCl_2F_2. **Water-white refrigerant.** B.P. —21.7°F. Uses—refrigerant in commercial and air conditioning refrigerating apparatus and household refrigerators. Grades—extremely pure.

Ansul Chem Co, Marinette, Wis — Marinette 216
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Elton Chems Inc, 3100 E 26 St, Los Angeles, Calif — Angelus 9-8183
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

DICHLORETHYL FORMAL

$CH_2(OCH_2CH_2Cl)_2$. Colorless liquid. Sp. gr. 1.2339 at 20°/20°C. B.P. 218.1°C. Uses—intermediate in manufacture of a synthetic "rubber" which is characterized by low hydrocarbon solubility and flexibility at low temperatures; chemical intermediate.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

DICHLORETHYLENE

CHCl.CHCl. **M.W. 96.93.** Obtainable as an isomer boiling at 48.4°C.; an isomer boiling at 60.3°C. and a mixture of these two isomers. Properties of the first isomer are: F.P. —50°C.; latent heat of vaporization at B.P., cal. ⅝g., 73.7°C.; Spec. heat at 20°C. (liq) cal./g./°C. or B.T.U./lb. /°F., 0.270; Spec. gr. at 20/4°C., 1.257; pounds per gal. at 20/°C., 10.49; Flammability, moderate. Properties of isomer two are: F.P. —80.5°C. latent heat of vaporization, 73.3; spec. heat 0.270; spec. gr. 1.282; Pounds per gal. 10.70; flammability, moderate.. Properties of mixture are: F.P. —80.0 to —80.5°C.; latent heat of vaporization 73.3; spec. heat 0.270; spec. gr. 1.272; pounds per gal. 10.61; flammability, moderate. Uses—

DICHLORETHYLENE (cont'd)

solvent for oils, waxes and organic compounds in general in chemical synthesis.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600

1,2-DICHLORO-2-FLUOROPROPANE

†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

DICHLOROMONOFLUOROMETHANE

Ansul Chem Co, Marinette, Wis — Marinette 216
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Eston Chems Inc, 3100 E 26 St, Los Angeles, Calif — Angelus 9-8183
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

2,5-DICHLORONITROBENZENE (1-Nitro-2,5-Dichlorbenzene, p-Dichloronitrobenzene)

$Cl_2{\cdot}C_6H_3{\cdot}NO_2$. M.W. 192. Tawny colored granular material; mild aromatic odor. M.P. 52.5° C. B.P. 260° C. Sol. benzene, chloroform, carbon disulfide, hot alcohol; insol. water. Uses: intermediate, rubber accelerator, disinfectants, fungicides.

†Dow Chem Co, Midland, Mich — Midland 500
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

1,1-DICHLORO-1-NITROETHANE

$CH_3C(NO_2)Cl_2$. M.W. 143.97. Insol. water; sol. organic liquids. Uses: anti-gelling agent for rubber cement, solvent for fats and waxes.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

1,1-DICHLORO-1-NITROPROPANE

$CH_3CH_2C(NO_2)Cl_2$. M.W. 157.99. Insol. water; sol. organic liquids. Uses: raw material for synthesis, anti-gelling agent in rubber cement; solvent for fats and waxes.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

DICHLORPHENOL

$Cl_2C_6H_3OH$. M.W. 162.95. Needles. M.P. 45°C. B.P. 209-10°C. Very sol. ether, alcohol, slightly in water. Uses—as intermediate.

†Dow Chem Co, Midland, Mich — Midland 500
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

DICHLOROTETRAFLUOROETHANE

†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Eston Chems Inc, 3100 E 26 St, Los Angeles, Calif — Angelus 9-8183

2,4-DICHLOROTOLUENE

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

3,4-DICHLOROTOLUENE

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

DICYANDIAMID (Dicyandiamine, Dicyanodiamide, Cyanguanidine)

$NH_2C(NH)NHCN$. Grayish-white powd. M.P. 204-5°C. Sol. water, alcohol; sparingly sol. ether. Uses—In fertilizers; intermediate in organic synthesis; mfr. rubber chemicals, pharmaceutical and cosmetic specialties. Grades—tech.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

DICYCLOHEXYLAMINE

Water-white liq. with faint odor resembling cyclohexylamine. B.P. at 760 mm., °C., 255.8; crystallizing pt. °C., —0.1; sp. gr. at 25/25°C. 0.9104; flash pt. °C., 100; fire pt. (sustained combustion), °C., 160. Slightly sol. water; sol. in all common organic solvents and miscible with cyclohexylamine. Does not form an azeotropic mixture on distillation with water. A strong base. Uses—organic synthesis; as an insecticide; plasticizer; corrosion inhibitor; mfr. dyes, emulsifying agents, drycleaning soaps, acid gas absorbents

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

DICYCLOHEXYLPHTHALATE

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

DICYCLOPENTADIENE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

DICYCLOPENTADIENE (cont'd)

†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y — Bowling Green 9-7600

DIDYMIUM (Metal)

Di, an element of the rare earth group. In some cases obtained as a by-product from gas-mantle manufacture. The pure product is obtained from the refining of various rare earthen salts. Uses—manufacture of didymium salts which are largely used as antiseptics, disinfectants, germicides.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

†Cerium Metals Corp, N Y

DIDYMIUM OXIDE

Di_2O_3. Gray powder, insoluble in water or alcohol, soluble in dilute acids.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

DIDYMIUM SALTS

Didymium oxide; reddish-brown powder, the mixed oxides of several rare-earth metals. Insol. in water, Sol. in acids, and sol. in molten glasses.
Didymium carbonate; pink powder, Insol. in water, sol. in acids.
Uses—correcting the color of glass and tinting vitreous enamels and ceramic glazes and formation of ceramic bodies with particular properties.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Elmer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

DIETHANOLAMINE

$(CH_2CH_2OH)_2NH$. M.W. 105.09. Straw colored liq. Sp. gr. 1.090-1.000 (20/20°C.). Wt. per gal., 9.141 lbs. (20°C.). B.P. 268°C. M.P. 28°C. .01 N. solution has a pH of 8.888. Entirely sol. water; misc. most organic solvents. Uses—absorbent for acid gases; softening and moistening agent; synthesis organic compound by esterification of the hydroxy groups of diethanolamine or by its condensation with aldehydes. Grades—tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Dow Chem Co, Midland, Mich — Midland 500
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

DIETHOXY ETHYL PHTHALATE

$C_6H_4(COOC_2H_5O.C_2H_5)_2$. M.W. 310. B.P. at 4 mm. 204-214° C. Sp. gr. at 200° C. 1.120. Lbs. per gal. 9.33. Water-white ester, freezes at 30° C. Uses—plasticizer for nitrocellulose and Vinylite; good resistance to heat, light and moisture. Neutral, odorless, waxy solid with excellent plasticising properties.

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

DIETHYL AMINE

$(C_2H_5)_2NH$. Colorless, inflam., liq. Sp. gr. 0.710. B.P. 56°C. Sol. water, alcohol. Uses—mfr. intermediate chemicals, dyes, etc. Grades—tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Export Finders Bureau, E Bridge St, N Y — Bowling Green 9-2912
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

DIETHYL AMINO ETHANOL

$(CH_3CH_2)_2N.CH_2CH_2OH$. A colorless liq. with amine-like odor. B.P. 160°C. Sp. gr. at 20/4°C. of 0.884. Sol. water, slightly hygroscopic. Av. weight, 7.37 lbs. per gal. at 20°C. Uses—synthesis of novocaine.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

DIETHYL ANILINE

$(C_2H_5)_2N{\cdot}C_6H_5$. M.W. 149.13. Colorless cryst. Alpha. Sp. gr. 0.934 M.P. —34.5°C. B.P. 216.3°C. Sol. alcohol, ether, chloroform; insol. water. Uses—mfr. intermediates, dyes, organic chemicals, pharmaceuticals. Grades—technically pure.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121

DIETHYL ANILINE (cont'd)

Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

DIETHYLBENZENE

$C_6H_4(C_2H_5)_2$. B.P. range 179.8-184.8°C. at 760 mm.; sp. gr. 0.8865 at 25/25°C.; dielectric constant 2.22; flash pt. 56°C.; fire pt. 63°C. Uses—solvent, low boiling transfer medium, intermediate. Grades. tech.

†Dow Chem Co, Midland, Mich — Midland 500
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240

N,N-DIETHYL BENZENE SULFONAMIDE

†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

DIETHYL CARBONATE (Diatol, Ethyl Carbonate)

$C_2H_5CO_3C_2H_5$. M.W. 118.08. Colorless liq., pleasant odor. Sp. gr. 0.9870. M.P. —43.0°C. B.P. 125.8°C. Sol. alcohol, ether. Uses—solvent nitrocellulose and lacquers. Grades—tech.

†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

DIETHYL ETHANOLAMINE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

DI-2-ETHYLHEXYL ADIPATE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

DI-2-ETHYLHEXYLAMINE (Dicetylamine)

$[C_4H_9CH(C_2H_5)CH_2]_2NH$.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

DIETHYLHEXYLETHANOLAMINE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

DI-2-ETHYLHEXYL PHTHALATE

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

DIETHYLKETONE (Metacetone, Ethyl Propionyl, Propione, Pentanone)

$C_2H_5COC_2H_5$. Colorless, mobile liq., acetone-like odor. Sp. gr. 0.814. B.P. 101°C. Sol. alcohol, ether, water. Uses—mfr. organic chemicals, intermediates; in medicine. Grades—tech.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877

DIETHYL MALEATE

$(CHCOOC_2H_5)_2$. Water-white liq., mild pleasant odor. B.P. 225°C.; sp. gr. 1.0658 at 25/25°C. Uses—solvent for nitrocellulose and in conjunction with 10-30% alcohol is a solvent for cellulose acetate.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

DIETHYL MALONATE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Var-Lac-Oid Chem Co, N Y

DIETHYL PHTHALATE

$C_6H_4(COOC_2H_5)_2$. Colorless, almost odorless, oily liq., bitter taste. Sp. gr. 1.136 (15°C.). B.P. 296.1°C. Sol. alcohol, ether, petroleum ether, organic solvents. Uses—solvent and fixative for perfumes; ingredient of perfumes; substitute for camphor in celluloid; solvent for cellulose acetate; oiling textile fabrics. Grades—pure; tech. (wide variation in quality).

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

diethyl phthalate

• Eastman diethyl phthalate offers a uniformly high-quality source of an effective plasticizer for cellulosics. This ester is also found useful as a perfume fixative. Supplied in drums, compartmented and full tank cars.

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Co.)
KINGSPORT, TENNESSEE

EASTMAN INDUSTRIAL CHEMICALS

Sales Reps in principal cities—see ad in Catalog Section.

DIETHYL PHTHALATE (cont'd)

Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

DIETHYL SEBACATE

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270

DIETHYL STILBESTROL

†Chemo Pure Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Fallek Prods Co Inc, 163 Bway, N Y — Barclay 7-7939
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

DIETHYL SUCCINATE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

DIETHYL SULFATE (Ethyl Sulfate)

$(C_2H_5)_2SO_4$. M.W. 154.14. Colorless liq., peppermint odor. Sp. gr. 1.172. B.P. 208°C. M.P. —26°C. Sol. alcohol, ether; insol. water. Uses—mfr. organic chemicals, intermediates. Grades—tech.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

1,3-DIETHYL THIOUREA

$CS(NHC_2H_5)_2$. M.W. 132.22. Buff color; faint odor. Uses: pickling with sulfuric acid, hydrochloric acid; reducing corrosion of ferrous metals and aluminum alloys in brine.

†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
†Harvyd Chems, Inc, Holland, Mich

DIETHYLENE GLYCOL

$OHCH_2CH_2OCH_2CH_2OH$. Colorless, hygroscopic liq. Sp. gr. 1.1188 B.P. 244.5°C. Sol. alcohol, water, ether. Uses—mfr. diethylene-glycol dinitrate, glues, composition cork, parchment paper; in textile

JEFFERSON CHEMICAL COMPANY, INC.
711 FIFTH AVENUE
NEW YORK 22, N. Y.

TRADE MARK

ETHYLENE OXIDE • ETHYLENE GLYCOL
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AROMATIC DISTILLATE • POLYCHLORINATED ETHER

DIETHYLENE GLYCOL (cont'd)

printing; as solvent for gums, resins, explosives, cellulose ester lacquers and plastics; etc. Grades—tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Dow Chem Co, Midland, Mich — Midland 500
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Jefferson Chem Co Inc, 711 5 Av, N Y — Plaza 9-3900
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Newberg, Wm D, Co, Inc, 420 Lexington Av, N Y — Oregon 9-2550
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Braun Knecht Heimann Co, San Fran, Calif

DIETHYLENE GLYCOL DIBENZENE SULFONATE

†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

DIETHYLENE GYLCOL ESTERS

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Ninol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

†Carlisle Chem Wks, Reading, O — †Emulsol Corp, Chicago, Ill

DIETHYLENE GLYCOL MONOBUTYL ETHER ACETATE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610

DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE

$C_2H_5OCH_2CH_2OCH_2CH_2O_2CH_3$. M.W. 176.13. B.P. 218°C. Colorless liq. Sp. gr. 1.008-1.013 at 20/20°C. Weight per gal., 8.41 lbs. at 20°C. Miscible with most common organic solvents, completely with water. Uses—solvents for cellulose esters, gums, and resins

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610

DIETHYLENE TRIAMINE

$(NH_2)C_2H_4(NH)C_2H_4(NH_2)$. Hygroscopic, somewhat viscous liq. B.P. 207.1°C. Completely sol. in water and hydrocarbons. Strongly alkaline, high-boiling solvent for sulfur, acid gases, various resins and dyes. Saponifies acidic materials, such as fatty acids, to form soaps which dehydrate to amides. Uses—mfr. rubber, resins, dyes; in the textile industry.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

DIGLYCOL

†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

DIGLYCOL CHLOROFORMATE

†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960

DIGLYCOL DIACETATE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

DIGLYCOL LAURATE

$HO.C_6H_4O.C_6H_4.OOC.H_{23}C_{11}$. Sp. gr. 0.963-0.968 (25°C.). B.P. does not decompose at 250°C. Uses—mfr. cosmetics, soluble oils for textile, paper, leather industries. Mfr. automobile, furniture and metal polishes; mfr. dry cleaning soap.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
†Ninol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

†Carlisle Chem Wks, Reading, O — †Emulsol Corp, Chicago, Ill
†El Dorado Oil Wks, Oakland, Calif

DIGLYCOL OLEATE (Diethylene Glycol Mono Oleate)

Light red oily liquid. Sp. gr. 0.93. Iodine value 65.-75. Sol. alcohol, ethyl acetate, methanol. Insol. water. Uses—emulsifier for polish.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
†Ninol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

†Carlisle Chem Wks, Reading, O — †Emulsol Corp, Chicago, Ill

DIGLYCOL RICINOLEATE (Diethylene Glycol Mono Ricinoleate)

$C_{17}H_{33}OCOOC_2H_4OC_2H_4OH$. Mol. wt. 386.56. Light yellow liquid. Sp. Gr. (25°/25°C.) 0.980. Solidification point 0°C. (Free Fatty Acid, 2.5-6.5. Saponification Value 150-160. Iodine value 67-71. Insoluble in water. Soluble in alcohol, acetone and ethyl acetate. Uses—interesting as a plasticiser for synthetic resins and synthetic rubbers. Also as a lubricant.

Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

DIGLYCOL STEARATE

$(C_{17}H_{35}COOC_2H_4)_2O$. Uses—cosmetic creams and lotions, lubricant for paper and cardboard in dry die-forming, as pigment and abrasive suspension for polishes, cleaners and lubricants. Thickening and suspending agent for shoe creams, metal polishes, etc. Emulsifying agent for shoe creams, metal polishes, etc.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Ninol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655

†Carlisle Chem Wks, Reading, O — †Emulsol Corp, Chicago, Ill

DIHEXYL ADIPATE

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Anous, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661

DIHEXYL DISULFIDE ditert

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

DIHEXYL PHTHALATE

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270

DIHEXYL SEBACATE

Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270

N,N-DIHYDROXYETHYL ETHYLENEDIAMINE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

4,4-DIHYDROXYDIPHENYLSULFONE

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240

DIIODO OXYQUINOLINE

Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

1,3-DIIODOPROPANE (Trimethylene Diiodide)

$C_3H_6I_2$. M.W. 295.92. Heavy clear liquid. Uses: organic syntheses.

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

DIIODOTYROSINE

†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

DIISOBUTYL AZELATE

Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030

DIISOBUTYL KETONE

$(CH_3)_2CHCH_2(CO)CH_2CH(CH_3)_2$. A colorless liq. misc. with most organic liq., but not with water. B.P. 168.0°C. Has a xylene dilution ratio of 1.5. Has excellent solvent power for rubber, nitrocellulose and synthetic resins, a stable, slow-evaporating solvent.

C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420

DIISOBUTYLENE

$(CH_3)_2CCHC(CH_3)_3$. M.W. 112.12. B.P. 102.6°C.; $d_{20}^{20} = 0.8159$; $N_D = 1.410$; sol. water. Com. product is mixture 80% 2, 4, 4 trimethyl pentane —1, and 20% 3, 4, 4 trimethyl pentane —2. Water-white in color. Uses—as a solvent where its close boiling range, 100-103°C., is of value; in chemical synthesis; mfg. of resins average weight at 20°C. 5.97 lbs. per gal.

†Atlantic Ref Co, 260 S Broad St, Phila, Pa — Pennypacker 5-2345
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400

DIISOBUTYLENE

Colorless liquid at room temperature and atmospheric pressure. Used in manufacture of isobutylene and polyisobutylene. Intermediate in preparing other chemicals.

TRIISOBUTYLENE

Clear, colorless liquid at room temperature and atmospheric pressure. Useful as an intermediate for the preparation of many chemical compounds.

TETRAPROPYLENE

Consists mainly of the tetramer, with small percentages of C_{18}, C_{14}, and C_{30} olefins. Most useful for the alkylation of such aromatic hydrocarbons as benzene, toluene, xylene, and naphthalene, and of phenolic materials such as phenol and cresol. A preferred material in a number of synthetic methods for making higher alcohols, mercaptans, alkyl halides, and other widely used products.

ENJAY COMPANY, INC.
15 West 51st St.
New York 19, N. Y.
Write or phone for further information.

ENJAY

DIISOOCTYL ADIPATE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420

DIISOOCTYL PHTHALATE

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
†Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270
†Ohio-Apex Inc, Nitro, W Va — Nitro 152

DIISOOCTYL SEBACATE

†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270

DIISOPROPANOLAMINE

$(CH_3CHOHCH_2)_2NH$. M.W. 133.18. High-boiling, oily liquid. B.P. 116° C. at 5 mm. pressure. Sp. gr. 1.0089 at 20° C. Sol. water, and in most organic solvents. Uses—emulsifying agents, stable to light and air; mfr. detergents, pharmaceuticals, and cosmetics.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Dow Chem Co, Midland, Mich — Midland 500

DIISOPROPYLAMINE

$[(CH_3)_2CH]_2NH$. M.W. 101.2. Miscible with most organic solvents. Ammoniacal odor; water-white color. Uses: starting material in mfg. of rubber chemicals, textile specialties, detergents, inhibitors, dyes, pharmaceuticals, anti-oxidants.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

DIISOPROPYLCARBINOL

†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121

DIISOPROPYLKETONE

†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420

DIISOPROPYLPHENOL

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240

1,3-DIISOPROPYLTHIOREA

†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

DILUENTS LACQUER

Active resin solvents which assist in the blending and compounding of specific resins with the nitrocellulose, cellulose, or other ingredients, thus modifying flow and vaporization characteristics. The more commonly used are benzol, toluol, xylol, various organic solvents, and petroleum solvents, specially fractionated for the lacquer industry. Products are specially treated in order that traces of objectionable nauseous odors are removed, as well as corrosive constituents. Grades—Light Fraction: This is used to replace benzol, all or in part, in fast drying lacquers. Rate of evaporation is similar to that of benzol. Medium Fraction: This is used to replace toluol, all or in part, in spraying lacquers for the automobile and furniture trade. Rate of evaporation is similar to that of toluol. Heavy Fraction: This is used to replace xylol, all or in part, in slower drying lacquers. Rate of evaporation is similar to that of xylol. Very Heavy Fraction: This is used in brushing lacquers for the architectural field. Evaporation rate is roughly similar to that of turpentine.

†Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
†Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
†Compo Chem Co, Inc, 152 Causeway St, Boston, Mass — Vanderbilt 6-1600
†Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
†Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420
†United Distillers of Amer Inc, 350 5 Av, N Y — Lackawanna 4-3570
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y — Bowling Green 9-7600

2, 3-DIMETHOXY BENZALDEHYDE

$(CH_3O)_2C_6H_3CHO$ M. W. 166.0. Yellowish brown fused crystalline mass. Crystallizing pt., 47.5°C. min.; Sp. G. 1.117 (60°C.); Wt. per gal., 9.3 lbs. approx.; Uses—as a perfume fixative and as an intermediate in chemical synthesis.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

DIMETHOXY ETHYL PHTHALATE

$C_6H_4(COOC_2H_4OCH_3)_2$. M.W. 282; B.P. 188-216°C.; Sp. gr. at 20°C. 1.173; lbs. per gal. 9.77. Water-white, neutral, odorless ester. Excellent stability to hydrolysis, heat and light; low solubility in petroleum solvents. Uses—plasticizer for cellulose acetate, cellulose ethers, and Vinylite.

†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

DIMETHOXYTETRAGLYCOL

$(CH_3OC_2H_4OC_2H_4)_2O$. M.W. 222.28. Water-white liquid. B.P. 275.8°C. Soluble in water. Uses—organic solvent; plasticizing agent; neutral medium for chemical reactions.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

DIMETHYLAMINE

$(CH_3)_2NH$. Gas. Is compressed to liq. state, also occurs in aqueous state. Aqueous solution is colorless; miscible with alcohol, water. Sp. gr. 0.686. B.P. 7.2°C. Sol. water, alcohol, ether. Uses—mfr. intermediates; in organic synthesis; as accelerator in rubber; insecticide for boll weevil. Grades—tech.

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

p-DIMETHYLAMINOBENZALDEHYDE

$C_6H_4[N(CH_3)_2]CHO$. M.P. 73°C. Light yellow crystals. Insol. water; sol. alcohol, chloroform, ether. Uses—dyes, reagent.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

†Drug Labs, Phila, Pa

DIMETHYLAMINO ETHANOL

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

DIMETHYLUREA
DIMETHYLAMINOETHANOL
Sharples Chemicals Inc. PHILADELPHIA · CHICAGO · NEW YORK

DIMETHYLAMINOETHYL CHLORO HYDROCHLORIDE

†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Michigan Chem Corp, St Louis, Michigan — 41
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

DIMETHYLANILINE

$C_6H_5N(CH_3)_2$. M.W. 121.09. Yellow or brown liq. Sp. gr. 0.962 (15°C.). M.P. 1.67°C. B.P. 192.5-193.5°C. Sol. alcohol, ether. Uses—mfr. dyes, methyl violet, crystal violet, methyl green, methylene blue, malachite green, auramarine, Michler's ketone, intermediates, organic chemicals, trinitrophenylmethylnitramine; as rubber accelerator. Grades pure.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 93 Beekman St, N Y — Rector 2-9810

DIMETHYLBUTANE

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

DIMETHYL DICHLORO BENZYL ALKYL AMMONIUM CHLORIDE

†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Hilton Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700

DIMETHYL DIOXANE

$OCH(CH_3)CH_2OCHCH(CH_3)$. M.W. 116.16. Water-white liquid. Uses: solvent for dyestuffs, oils, fats, waxes, and cellulose derivatives.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

DIMETHYLETHANOLAMINE (Dimethylaminoethanol)

$(CH_3)_2NCH_2CH_2OH$. M.W. 89.14. Sol. water. Colorless, amine-odored liquid. Uses: in synthesis of dyestuffs, textile auxiliaries, pharmaceuticals, and corrosion inhibitors.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

DIMETHYL FORMAMIDE

†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121

DIMETHYL FURANE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

DIMETHYL GLYCOL PHTHALATE

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420

DIMETHYLGLYOXIME (Diacetyl-dioxime)

$CH_3C(NOH)C(NOH)CH_3$. M.W. 116.08. White, crystalline solid. M.P. 246°C. Very slightly soluble in water, sol. alcohol. Uses—precipitant for nickel and other metals. Grades—analytical, tech.

†Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

†Richmond Chem Corp, Staten Is, N Y †Var-Lac-Old Chem Co, N Y

DIMETHYL HYDROQUINONE

$C_6H_4(OCH_3)_2$. M.W. 138. Crystalline solid. Uses: tobacco, honey compounds.

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

DIMETHYL ISOPROPANOLAMINE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

DIMETHYL MALEATE

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

DIMETHYL NAPHTHALENE

†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
†Velsicol Corp, 330 E Grand Av, Chicago, Ill — Delaware 7-7383

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DIMETHYL PHTHALATE (Methyl Phthalate)

$C_6H_4(CO_2CH_3)_2$. M.W. 194.08. Colorless, odorless liq. Sp. gr. 1.190 (20°C.). Ester content 99-100%. Acidity, free acid as phthalic, not over .02%. Uses—as a plasticizer, particularly for nitrocellulose.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600

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DIMETHYL PHTHALATE (cont'd)

Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium C481
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

DIMETHYL SEBACATE

$[(CH_3)_2COOCH_3]_2$. Uses—solvent or plasticizer for nitrocellulose, vinyl resins.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270

DIMETHYL SULFATE (Methyl Sulfate)

$(CH_3)_2SO_4$. Colorless liq. Sp. gr. 1.333 (15°C.). M.P. —31.8°C. B.P. 188.3 to 188.6°C. Sol. alcohol. Uses—methylating agent in making intermediates, dyes, phenols, poison gas, synthetic drugs. Grades—crude; rectified; tech.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Maywood Chem Wks, 100 W Hunter Av, Maywood N J — Hackensack 2-2020
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

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DIMETHYL SULFOLANE

†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400

1,3-DIMETHYLUREA

†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

DIMETHYLOL UREA

$HOCH_2NHCONHCH_2OH$. A water soluble primary condensation product of urea and formaldehyde of particular interest as a resin intermediate. Useful in protective coating, adhesive, and impregnating compositions and in the modification of natural and synthetic products. Water content less than 11%. Water solubility 15% at 20° C., 45% at 50°C. Generally insoluble in organic solvents.

†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121

Di-b-NAPHTHYL-p-PHENYLENEDIAMINE

$C_{10}H_7\text{-}NH\text{-}C_6H_4\text{-}NH\text{-}C_{10}H_7$. M.W. 360.26. Gray powder. Insol. water. Uses: antioxidant, stabilizer, polymerization inhibitor, intermediate in organic syntheses.

†Goodrich, B F, Chem Co, Cleveland, O

DINITRANILINE

$C_6H_5O_4N_3$. M.W. 183.19. M.P. (2:3) 127°C. (2:4). Yellow, monoclinic crystals. Sp. gr. 1.165. M.P. 181°C.; insol. water; sol. alcohol, ether (2:5) M.P. 137°C. (2:6)—large, yellow, crystalline needles, M.P. 138°C.; sol. alcohol. (3:4) M.P. 154°C. (3:5) M.P. 189C. Uses—as an intermediate.

Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

DINITROANISOLE (m-Dinitroanisole, 2:4-Dinitroanisole)

$CH_3OC_6H_3(NO_2)_2$. M.W. 198. Light yellow powder. M.P. 94.5-96° C. Uses: dyestuff intermediate; insecticide.

Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

DINITROBENZENE

$C_6H_4(NO_2)_2$. M.W. 168.14. Colorless scales. M.P. 117°C.; B.P. 319°C. Very slightly sol. in water, slightly sol. in alcohol; soluble in benzene. Uses—mfr. dyes.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

3,5-DINITROBENZOYL CHLORIDE

$C_6H_3(NO_2)_2COCl$. M.W. 230.6. Cream colored crystals. Uses: Identification and isolation of certain high molecular compounds containing hydroxy-groups.

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447
†Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

†Eastern Chem Corp, Newark, N J — †National Biochemical Co, Chicago, Ill

DINITROCHLOROBENZENE (Dinitrochlorobenzol)

$C_6H_3(NO_2)_2Cl$. Colorless needles. Sp. gr. 1.6867-1.697. M.P. 37.1-53.0°C. (depending on position of NO_2 and Cl groups in molecule). Sol. alcohol; insol. water. Uses—rafr. sulfur black dyes, dinitrophenol, substituted diphenylamines, synthetic perfumes. Grades—tech.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870

Talve Trading Co, N Y

DINITRO-o-CRESOL

$C_7H_6O_5N_2$. M.W. 198.2. M.P. 104°C. B.P. 312°C. Uses—known as saffron substitute; orange-colored poisonous dye.

Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
Page, Chas, & Co Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Standard Chem Prods Inc, 1301 Jeffersen St, Hoboken, N J — Hoboken 3-1200

DINITROPHENOL (Alpha-Dinitrophenol)

$C_6H_3OH.(NO_2)_2$. a. 2:3. b. 2:4. c. 2:6. Yellow, crystalline powd. a. Sp. gr. 1.683. M.P. 144°C. b. Sp. gr. 1.683. c. M.P. 111.6°C. M.P. 61-78°C. Sol. alcohol, benzene, chloroform; slightly sol. water. Uses—mfr. sulfur and azo dyes, ammonal black, sulfur blacks, picramic acids, picric acid, amidol; as wood preservative. Grades—tech.

†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

DINITROTOLUENE (Dinitrotoluol)

$C_6H_3.CH_3(NO_2)_2$. a. 2:4. b. 3:4. c. 3:5. Yellow cryst. a. Sp. gr. 1.521. M.P. 69.6°C. b. Sp. gr. 1.26. M.P. 59.8°C. c. M.P. 92.3°C. Sol. alcohol, ether; insol. water. Uses—mfr. T. N. T., organic chemicals, tolidines, toluidines, sulfur and azo dyes; in dynamite to prevent freezing. Grades—tech.

Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121

DINITROTOLUENE (cont'd)

Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Dereume, Raymond, Punxsutawney, Pa	

DINONYL ADIPATE

†Hardesty Chem Co, Inc, 41 E 42 St, N Y	Murray Hill 2-6270

DINONYL PHTHALATE

†Hardesty Chem Co, Inc, 41 E 42 St, N Y	Murray Hill 2-6270

DINONYL SEBACATE

†Hardesty Chem Co, Inc, 41 E 42 St, N Y	Murray Hill 2-6270
†Decey Prods Co, Cambridge, Mass	

DI-tert-OCTYL DISULFIDE

Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221

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"ELASTEX" 50-B Plasticizer
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$C_6H_5(COOC_8H_{17})_2$. M.W. 391.55. Viscous oil, used as a plasticizer

†Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030

SANTICIZER 107
Dioctyl Phthalate

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Organic Chemicals Division
St. Louis 4, Mo.

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Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y	Murray Hill 2-6270
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-5466
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†Ohio-Apex Inc, Nitro, W Va	Nitro 152
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676

DIOCTYL PHTHALATE (cont'd)

Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420
★†Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957

dioctyl phthalate (DOP)

• Eastman offers dioctyl phthalate with an exceptionally low color and of uniform and dependable quality in both an electrical and a non-electrical grade. DOP is probably the best all-purpose plasticizer known for polyvinyl resins and also finds use with a wide variety of other materials, including polymethyl methacrylate, the cellulosics and synthetic rubber. Available in drums, compartmented and full tank cars.

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Co.)
KINGSPORT, TENNESSEE

EASTMAN INDUSTRIAL CHEMICALS

Sales Reps in principal cities—see ad in Catalog Section.

DI-n-OCTYL PHTHALATE

†Ohio-Apex Inc, Nitro, W Va	Nitro 152

DIOCTYL SEBACATE

Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y	Murray Hill 2-6270
†Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860

DIOXANE (1,4-Dioxane, Diethylene Dioxide)

$O:(CH_2CH_2)_2:O$. M.W. 88.10. Colorless liquid with faint pleasant odor. Solvent for water, cellulose acetate, ethyl cellulose, benzyl cellulose, resins, vegetable and mineral oils, fats, greases, lignin. Uses: solvent in mfg. of lacquers, varnishes, paint and varnish removers, detergents; dispersing agent in dye baths; in mounting tissue specimens.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

DIOXOLANE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000

DIPENTAERYTHRITOL (Dipentaerythrite)

$(CH_2OH)_3 \cdot C \cdot CH_2 \cdot O \cdot H_2C(CH_2OH)_3$. M.W. 254.28. White powder. M.P. 221°C. Sol. hot water. Insol. hydrocarbons. Uses: manufacture of varnishes, resins, and synthetic drying oils.

†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
†Trojan Powder Co, Allentown, Pa	45201

DIPENTENE (Terpene)

Hydrocarbons with the general formula $C_{10}H_{16}$. Density 0.865. Colorless liq., insol. water, alcohol, ether. B.P. 180-190°C. (90%). Uses—flavoring, in medicine.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass	Liberty 2-1870
†Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100

DIPENTENE (cont'd)

Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Hercules Powder Co, 978 Market St, Wilmington, Del — Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Newport Industries Inc, 230 Park Av, N Y — Murray Hill 6-7505
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1151
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Colledge, E W, GSA, Inc, Jacksonville, Fla
†Crosby Chems, Inc, De Ridder, La
Gillies & Loughlin, Los Angeles, Calif
Moser, George, & Son, Inc, Detroit, Mich
Rimco Trading Corp, N Y
†Southern Naval Stores Div, Leach Bros, Columbia, Miss
Wilson, T C, Co, San Fran, Calif
Zimmerman, C L, Co, Cincinnati, O

DIPHENYL (Biphenyl, phenyl benzene)

$C_6H_5.C_6H_5$. M.W. 154.08. Light yellow crystalline solid. B.P. 255.6°C. F.P. 68.5°C. Uses—as a high temperature, low pressure heat transfer medium; as a di-electric fluid; also starting point for many derivatives such as chlorinated diphenyl, sulfonic acid, nitro, amino and hydroxy compounds.

†Dow Chem Co, Midland, Mich — Midland 500
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

DIPHENYLACETONITRILE

$(C_6H_5)_2CHCN$. M.W. 193. Colorless crystals. Insol. water; very sol. alcohol. Uses: prep. of diphenylacetic acid, p-diphenyl ethylamine and synthesis of anti-spasmodics.

Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-[illegible]00

DIPHENYLACETONITRILE

For Synthesis of
Antispasmodics and Analgesics

•

SPECIAL CHEMICALS DIVISION

Winthrop-Stearns INC.

1450 BROADWAY, NEW YORK 18, N. Y.

DIPHENYLAMINE (Phenylaniline)

$(C_6H_5)_2NH$. Colorless to grayish leaflets. Sp. gr. 1.159. M.P. 54°C. B.P. 302°C. Sol. alcohol, ether; slightly sol. water. Uses—mfr. sulfur and other dyes, intermediates, organic chemicals, sulfur blues, aurantia, orange IV, metanil yellow, acridine diphenylhydrazin, diphenylamine blue and orange, diphenyl blue, arbovin, carbazol; stabilizer of nitrocellulose explosives and celluloid; colloidal metal solutions; synth. perfume preparations. Grades—tech.

†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

DIPHENYL AMINE CHLORASINE

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240

DIPHENYLCARBAZIDE

$(C_6H_5NHNH)_2CO$.

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

DIPHENYLCARBONATE

$(C_6H_5)_2CO_3$. M.W. 214. White crystalline solid. M.P. 78°C. B.P. 302°C.; 168°C. (15 mm). Insoluble in water, soluble in hot alcohol, ether, acetic acid, acetone, and most aromatic solvents. Volatility of 22.0% compared with 100% for camphor. Compatible with cellulose acetate, effecting ready solution to form a clear and uniform plastic comparable to that formed with camphor. It is similarly recommended for ethyl cellulose plastic. Forming odorless and less combustible plastic with nitro cellulose, it lends itself for substitution of up to 50% of the camphor content of such plastics.

DIPHENYLCARBONATE (cont'd)

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

DIPHENYLGUANIDINE (Melaniline, D. P. G. Salt)

C_6H_5NaN. White, crystalline powd. or needles. M.P. 147°C. Decomposes at 170°C. Sol. water, alcohol. Uses—rubber accelerator. Grades—tech.; powd. (97%).

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

DIPHENYL HYDANTOIN

Amer Roland Corp, 15 Hudson St, N Y — Digby 9-0170
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959

DIPHENYL HYDANTOIN SODIUM

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959

DIPHENYLMETHANE (Methylenediphenyl, Benzylbenzene)

$(C_6H_5)_2CH_2$. Colorless, long needles. Sp. gr. 1.001. M.P. 26.5°C. B.P. 261°C. Sol. alcohol, ether. Uses—mfr. intermediates, dyestuffs, organic chemicals, synthetic pelargonium oil, floral ottos. Grades—tech.

†Dow Chem Co, Midland, Mich — Midland 500
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

DIPHENYL OXIDE

$(C_6H_5)_2O$. Colorless crystals, geranium odor. Sp. gr. 1.0728. M. P. 27°C. B. P. 259°C. Uses—perfume, organic synthesis.

†Dow Chem Co, Midland, Mich — Midland 500
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

N-N'-DIPHENYL-p-PHENYLENEDIAMINE

C_6H_5-NH-C_6H_4-NH-C_6H_5. M.W. 260.18. Greenish brown powder. Insol. water. Uses: antioxidant, stabilizer, polymerization, inhibitor, intermediate in organic syntheses.

†Goodrich, B F, Chem Co, Clereland, O

DIPHENYL PHTHALATE

The diphenyl salt of phthalic acid. Uses—as a plasticizer.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

DIPHENYL THIOCARBAZONE

$C_6H_5.N.N.CS.NH.NH.C_6H_5$ M. W. 256.19. Bluish-black cryst. powder. Insol. in water; sparingly sol. in alcohol, freely in carbon tetrachloride, chloroform. Soins. not stable, but may be preserved by a layer of sq. SO_2. Uses—Sensitive reagent for several heavy metals, Co, Cu, Pb and Hg. Particularly used for estimation of minute amount of Pb.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

DIPHENYLENE OXIDE

†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

DIPROPYL KETONE (Butyrone)

$(CH_3CH_2CH_2)_2CO$. Colorless liquid. Sp. gr. .8102 at 20/20°C. B.P. 143.4°C. Solubility in water 0.5% at 20°C. Soluble alcohol, hydrocarbons and most organic liquids. Uses—in lacquers as high boiling ketone; solvent for resins. Grades—tech.

†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140

DIPROPYLENE GLYCOL

$(CH_3CHOHCH_2)_2O$. M.W. 134.17. Colorless, slightly viscous liquid. B.P. 231.8° C. Sp. gr. 1.0252 at 20° C. Sol. in water and most

DIPROPYLENE GLYCOL (cont'd)

organic solvents (gasoline excepted). Uses—solvent for shellac, nitrocellulose; partially compatible with cellulose acetate. More active as a solvent than either propylene glycol or diethylene glycol.

Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
†Dow Chem Co, Midland, Mich — Midland 500
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

DIPROPYLENE GLYCOL METHYL ETHER

†Dow Chem Co, Midland, Mich — Midland 500

DIPROPYLENE GLYCOL MONOSTEARATE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760

DIPROPYLENE GLYCOL PHENYL ETHER

†Dow Chem Co, Midland, Mich — Midland 500

DIPROPYLENE TRIAMINE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

DIPYRIDYL (2,2'-Bipyridyl, 2,2'-Bipyridine)

$(C_5H_4N)_2$. M.W. 156. White crystals. M.P. 70° C. Uses: oxidation-reduction indicator; colorimetric determination of ferrous iron; drying agent for paints.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

DISODIUM ETHYLENEDIAMINE TETRACETATE

†Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877

DITHIOCARBAMATES

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

TETRAETHYLTHIURAM DISULFIDE
TETRAMETHYLTHIURAM DISULFIDE
SELENIUM DIETHYLDITHIOCARBAMATE
ZINC DIBUTYLDITHIOCARBAMATE
ZINC DIETHYLDITHIOCARBAMATE
ZINC DIMETHYLDITHIOCARBAMATE

Sharples Chemicals Inc. PHILADELPHIA · CHICAGO · NEW YORK

DI-o-TOLYLGUANIDINE

$NH.C(NH.CrC_7H_7)_2$. White powd. Sp. gr. 1.10. M.P. 179°C. Sol. alcohol, water. Uses—rubber accelerator.

†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121

DIVI DIVI

Fruit of Caesalpinia copiaria. Habitat—West Indies. Uses—tanning leather. Grades—pods; extract.

†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910

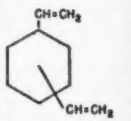
DIVINYL BENZENE

$C_6H_4(CH{\cdot}CH_2)_2$. M.W. 130.60. Tan liquid. Uses: cross-linking agent in certain polymers; polymerizes with itself to form tough, insoluble, infusible resins.

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240

KOPPERS
Divinylbenzene
DVB, 40-50% DVB, 20-25%

Divinylbenzene is useful both as a chemical intermediate and as a starting material for the preparation of specialty copolymers and resins. Divinylbenzene is used for the production of "super processing" GR-S synthetic rubbers, for potting and laminating resins, for modified drying oils, for synthetic ion exchange resins



KOPPERS COMPANY, INC.
CHEMICAL DIVISION
Pittsburgh 19, Pa.

DODECYL DISULFIDE, Ditertiary

$(C_{12}H_{25})_2S_2$. M.W. 433.62. Boiling range 266-409°C. Use: chemical intermediate.

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

DODECYL IODIDE

†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

DODECYL MERCAPTAN

★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

Tertiary—DODECYL MERCAPTAN

$C_{12}H_{25}SH$. Sp. gr. 0.871 at 60/60°F. B.P. 224-232°C. Purity 97% (hydrocarbon impurity). Suggested uses: Organic synthesis; pharmaceuticals, insecticides, fungicides, solvent, polymerization modifiers and as an additive in rubber and plastics.

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

DOLOMITE (Bitter Spar, Brown Spar, Rhombic Spar)

$CaMg(CO_3)_2$. White, solid crystalline. Sp. gr. 2.89—2.924. Sol acids. Uses—mfr. magnesium compounds, potteries, porcelains, glazes for ceramic ware, cement, plaster, brick and building stone, refractory linings for metallurgical furnaces; in fertilizers.

Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
†Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†U S Gypsum Co, Industrial Div, 300 W Adams St, Chcago, Ill — State 2-6100
†Gibsonburg Lime Prods Co, Gibsonburg, O
†Industrial Minerals & Chem Co, Berkeley, Calif
McIver, Alex M, & Son, Charleston, S C
Mfrs Mining Co, Seattle, Wash
†Marblehead Lime Co, Chicago, Ill
†National Gypsum Co, Buffalo, N Y
†U S Lime Prods Corp, San Fran, Calif
†Utah Lime & Stone Co, Salt Lake City, Utah
†Warner Co, Phila, Pa

DRAGON'S BLOOD (Sanguis Draconis)

Resinous exudation from fruit of palm trees. Red, solid amorp, odorless. Natural. M.P. 120°C. Sol. alcohol, ether, volatile and fixed oils, chloroform, etc. Uses—coloring for lacquers, plasters, paper, marble, stoneware, toilet preparations, pigments, tanning extracts, tooth-powder, furniture polish, paints, varnishes, lithography, process engraving; in medicine. Grades—tech. (Calamus Draco): reeds; mass; powd.

Allison, Wm H, & Co, 162 Water St, N Y — Whitehall 3-7421
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1979
Busschaert, P S, Inc, N Y

DROP BLACK (Frankfort Black)

Made by calcining sheep bones. Uses—same as Carbon Black. Grades—tech.

†Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

DULCIN

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Stanetal Corp, Linden, N J

DYES ACID

Salts of color acids. Dye animal fibers directly, but do not dye vegetable fibers. Used mostly with wool and silk.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Bernard Color & Chem Corp, 335 Hudson St, N Y	Watkins 4-5460
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
†Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O	Elmhurst 1300
†L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
†N Y Color & Chem Co, 374 Main St, Belleville, N J	Belleville 2-1140
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y	Hastings 5-3000
†Allied Raw Materials, N Y	Krieger Color & Chem Co, Inc, Hollywood, Calif
Bachmeier & Co, Inc, N Y	
Berkshire Color & Chem Corp, Springfield, Mass	Pylam Prods Co, Inc, N Y
†Commonwealth Color & Chem Co, N Y	Rona, L L, & Co, Inc, N Y
†Johnson, Charles Enen, & Co, Phila, Pa	Sagamore Color & Chem Co, Boston, Mass
	†Young Aniline Wks, Inc, Baltimore, Md

DYESTUFFS

ACID AND BASIC DYES, NAPHTHOLS,
FAST BASES, AND FAST COLOR SALTS
for the Textile Industry

DYESTUFFS

For the Printing Ink, Carbon Paper, Drug
and Cosmetic and Leather Industries

DYESTUFF INTERMEDIATES

The Hilton-Davis Chemical Company Division
2235 Langdon Farm Road
Cincinnati, Ohio

DYES ANILINE

Perhaps most important member is aniline black. Largely used on calico printing. Applied generally by either of two methods: oxidation or single bath method.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120

Buyers of Surplus

Chemicals • Oils • Waxes
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Barclay CHEMICAL COMPANY, INC.
77 VARICK STREET NEW YORK 13, N. Y. • WO 4-5120

†Bernard Color & Chem Corp, 335 Hudson St, N Y	Watkins 4-5460
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
†Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Fezandie & Sperrle, Inc, 205 Fulton St, N Y	Cortlandt 7-1460

ANILINE DYESTUFFS

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ACID
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SULFUR
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COTTON
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FALLEK PRODUCTS CO., INC.
163 Broadway
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NATIONAL DYES

We Invite
Your Dyestuffs
and Color Problems

NATIONAL ANILINE DIVISION
ALLIED CHEMICAL AND DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.
Boston Providence Philadelphia Chicago
San Francisco Portland, Ore. Greensboro Charlotte
Richmond Columbus, Ga. Atlanta New Orleans
Chattanooga Toronto

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117 Liberty St., New York 6, WOrth 4-3950
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DYES ANILINE (cont'd)

Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
†National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

†Allied Raw Materials, N Y
Bachmeier & Co, Inc, N Y
Bingham & Co, Inc, N Y
†Commonwealth Color & Chem Co, N Y
Eastern Color & Chem Co, N Y
†Foster-Heaton Co, Paterson, N J
Krieger Color & Chem Co, Inc, Hollywood, Calif
MacHale, A J, N Y
†Murray-Williams Color & Chem Co, Maplewood, N J
Pylam Prods Co, Inc, N Y
Ritter Chem Co, Amsterdam, N Y
Rona, L L, & Co, Inc, N Y
Sagamore Color & Chem Co, Boston, Mass
†Young Aniline Wks, Inc, Baltimore, Md

DYES, ANTHRAQUINONE

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
†Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

Bachmeier & Co, Inc, N Y
Pylam Prods Co, Inc, N Y
Rona, L L, & Co, Inc, N Y
Sagamore Color & Chem Co, Boston, Mass

DYES AZO

The important feature of the production of azo dyes is the formation of a diazonium compound from one intermediate, and the coupling of this with another intermediate.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y — Digby 4-2670
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

†Allied Raw Materials, N Y
Bachmeier & Co, Inc, N Y
Berkshire Color & Chem Corp, Springfield, Mass
†Foster-Heaton Co, Paterson, N J
†May, Otto B, Inc, Newark, N J
†Pylam Prods Co, Inc, N Y
Sagamore Color & Chem Co, Boston, Mass
†Young Aniline Wks, Inc, Baltimore, Md

DYES BASIC

Derived from ammonia by replacement of one or more hydrogen atoms of one or more molecules of ammonia with various other elements or groups of elements. Basic in character, hence the name. Combine readily with silk and wool without aid of mordants, producing brilliant shades. Used on leather, paper and various textile fibers.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

†Allied Raw Materials, N Y
Bachmeier & Co, Inc, N Y
Berkshire Color & Chem Corp, Springfield, Mass
Krieger Color & Chem Co, Inc, Hollywood, Calif
Pylam Prods Co, Inc, N Y
Rona, L L, & Co, Inc, N Y
Russell, W R, & Co, N Y
Sagamore Color & Chem Co, Boston, Mass

DYES CHROME

Intermediate in character between acid and mordant colors. Resemble acid colors in that they may be dyed directly upon wool in an acid bath and at the same time resemble the mordant colors in that they may be dyed upon metallic mordants. Used extensively on men's and women's wear. Possess good fastness to light, acids, washing, perspiration, spotting, etc.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

†Allied Raw Materials, N Y
Berkshire Color & Chem Corp, Springfield, Mass
Poughkeepsie Dyestuff Corp, Poughkeepsie, N Y
Rona, L L, & Co, Inc, N Y
Sagamore Color & Chem Co, Boston, Mass

Geigy
Dyestuff Makers Since 1859

GEIGY COMPANY, INC.

Branches
In all leading dyestuff consuming centers.

Main Office
89-91 Barclay St., New York 8, N. Y.

DYES DIRECT

Dye both animal and vegetable fibers directly; applied mostly to cotton and to some extent to wool and silk.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606

GENERAL DYESTUFF CORPORATION

435 HUDSON STREET • NEW YORK 14, N.Y.

BOSTON • CHARLOTTE • CHICAGO • PHILADELPHIA • PROVIDENCE • SAN FRANCISCO



In addition to our vast range of dyestuffs we offer an extensive range of detergents, emulsifying, dispersing, foaming, wetting-out, water softening and organic sequestering agents for the Textile, Paper, Leather, Lake, Plastic, Rubber, Agricultural, Chemical and Soap industries. Our Technical Department will be glad to co-operate with you in supplying information on the newest developments in the use of these products.

TEXTILES

Bionol and Biopal: Quaternary germicides and germicidal detergents.

Colloresines: Gum substitutes (cellulose ethers).

Diazopon: Dyeing assistant for Naphthols.

Emulphors: Emulsifying agents for mineral oils, fatty acids and waxes.

Eulan CN: Permanent moth-proofing agent.

Igepals: Wetting and scouring agents for all fibers; non-exhausting wetting agents for wool carbonizing; non-ionic dispersing agents.

Igepons: Scouring agents for wool, cotton and all other fibers; dyeing assistants and wetting agents.

Leonil O: Degreases wool in an acid bath.

Nekals: Quick acting penetrating agents for wetting-out and rewetting.

Nullapons: Lime sequestering agents which soften water by formation of complex ions.

Peregals: Levelling and stripping agents for vat dyeing.

Prestabit Oils: Highly sulphonated stable oils for level dyeing and finishing.

Preventols and Puratized: Mildew proofing compounds.

Protectols: Protective agents for wool processing, dyeing and stripping.

Ramasits and Ramasols: Water repellent compounds.

Soromines: Cation and anion active finishes and dye fixing agents.

PAPER

Blancol Conc. Powder: For improved sizing, increased filler retention, prevention of pitch coagulation and elimination of foam specks.

Colloresines: Fc .mproved grease and oil resistance and for improved gloss-ink printing.

Emulphor ELA: Leveling agent for basic and acid dyes in calender coloring.

Igepal CA Extra: Detergent and scouring agent for de-inking and cleaning wool felts.

Katanol W: Mordant for bleed-proofing basic calender stains.

Nekal BX: Wetting-out agent for new felts and conditioning felts in use.

Preventols: Non-toxic slime control and mildew-proofing agents.

Puratized—Gallicide: Mercuric compounds for slime control.

LEATHER

Blancol Conc. Powder: Syntan for bleaching chrome tanned leathers and as buffer and resist in dyeing pastel shades.

Colloresines: Adhesive agents for pasting leather.

Corial Bottom: For water repellent leather finishes.

Emulphors: Wetting, emulsifying and dispersing agents used extensively in pickle degreasing and in flaming.

Igepons: For fatliquor emulsifying in hard water and clearing preliminary to dyeing.

Implenal: Chrome tanning aid which imparts greater plumpness to the leather, especially in the flanks.

Neutrigan: For neutralizing chrome tanned leathers.

Preventol I Liquid: For disinfecting and preventing mold in leather.

Tanigan Supra DLNA: Syntan with tanning and filling action for retanning and bleaching chrome tanned leathers.

SOAP COMPOUNDERS

Igepals: Non-ionic synthetic detergents.

Igepons: Anionic synthetic detergents.

Nullapons: Organic sequestering agents.

Blancophors: Optical whitening agents.

RUBBER

Emulphor ON: Emulsifying and dispersing agent for stabilizing latex.

Igepons: Wetting agents for latex.

AGRICULTURAL

Emulphors: Emulsifying agents.

Igepal No. 300: Emulsifier for DDT, 2,4D, Chlordane, etc.

Igepons: Wetting agents for sulphur, insecticides and fungicides.

Nekals: Wetting agents for sulphur, insecticides and fungicides, and for fruit washing.



DYES DIRECT (cont'd)

Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Color & Chem Co, 374 Main St, Belleville, N J	Belleville 2-1140
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650

†Allied Raw Materials, N Y
Berkshire Color & Chem Corp, Springfield, Mass
Krieger Color & Chem Co, Inc, Hollywood, Calif
†Peerless Color Co, Plainfield, N J
Ritter Chem Co, Amsterdam, N Y
Rona, L L, & Co, Inc, N Y
Sagamore Color & Chem Co, Boston, Mass
†Young Aniline Wks, Inc, Baltimore, Md

DYES, NATURAL

Substances derived from natural sources in contrast with synthetically produced dyes. Employed for special purposes. Produced by some form of extraction, usually water, followed by a concentration. See Annatto, Chorophyll, Cochineal, Cutch, Fustic, Indigo, Logwood Extract, Madder, Nutgalls, Osage Orange Extract, Quercitron Bark, Turmeric, etc.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Dyewood Co, 22 E 40 St, N Y	Murray Hill 3-5720
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Bernard Color & Chem Corp, 335 Hudson St, N Y	Watkins 4-5460
N Y Color & Chem Co, 374 Main St, Belleville, N J	Belleville 2-1140
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870

†Allied Raw Materials, N Y

DYES SPIRIT SOLUBLE

This group of dyes is, as the name implies, soluble in alcohol and practically insoluble in water. The dyes in this group are used principally for dyeing wood stains, lacquers, etc.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
†Bernard Color & Chem Corp, 335 Hudson St, N Y	Watkins 4-5460
†Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
†Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
†Hilton-Davis Chem Co Div, 2235 Langden Farm Rd, Cincinnati, O	Elmhurst 1300
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
†L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
†N Y Color & Chem Co, 374 Main St, Belleville, N J	Belleville 2-1140
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870

Krieger Color & Chem Co, Inc, Hollywood, Calif
†Pylam Prods Co, Inc, N Y
Rona, L L, & Co, Inc, N Y

DYES SULFUR

Soluble in sodium sulfide solutions and used extensively for vegetable fibers, which they dye directly.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Bernard Color & Chem Corp, 335 Hudson St, N Y	Watkins 4-5460
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
†Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
†L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760

†Allied Raw Materials, N Y
Berkshire Color & Chem Corp,
Rona, L L, & Co, Inc, N Y
Sagamore Color & Chem Co, Boston, Mass
†Southern Dyestuff Corp, N Y

DYES VAT

Dye both animal and vegetable fibers directly and largely used on cotton, and to some extent on wool; characterized by great fastness. Vat dyes refer to insoluble color substances which can readily be converted to a soluble and usually colorless modification through the use of reducing agents.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Bernard Color & Chem Corp, 335 Hudson St, N Y	Watkins 4-5460
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
†Dow Chem Co, Midland, Mich	Midland 500
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
†L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760

†Allied Raw Materials, N Y
Bingham & Co, Inc, N Y
†Lotte Chem Co, Inc, Paterson, N J
MacHale, A J, N Y
†May, Otto B, Inc, Newark, N J
†Peerless Color Co, Plainfield, N J
Rona, L L, & Co, Inc, N Y
†Southern Dyestuff Corp, N Y

EGG YOLK

From yolks of hen's eggs, etc. Orange to yellow, semi-solid. Sp. gr. 0.9516. M.P. 22.0-22.5°C. Solidification point 8-10°C. Iodine number 81.2-81.6. Uses—mfr. food, baked and dairy products, soaps, perfume preparations, ointments and emulsions for pharmaceutical purposes; tanning and dressing leather; in medicine. Grades—tech., edible.

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y	Walker 5-5530
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y	Hanover 2-3750
†Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill	Boulevard 6400
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Parker, Herbert H, 2 Bway, N Y	Whitehall 4-7996
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Wah Chang Corp, 233 Bway, N Y	Cortlandt 7-0887
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091

†Emulsol Corp, Chicago, Ill
Fidelity Trading Co, Inc, San Fran, Calif
Lotte Chem Co, Inc, Paterson, N J
Standard Chem Co, Phila, Pa

EMERY, POWDERED

Dark crystalline. Uses—abrasive; grinding and polishing.

Griffiths, K F, & Co, Inc, 280 Madison Av, N Y	Murray Hill3-8350
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412

†Keystone Emery Mills, Phila, Pa

ENZYMES

Catalysts of organic and usually colloid nature having a specific action. They are formed by living cells but are usually independent of the presence of the latter in their operation. Uses: produce hydroysis (decompose fats, convert aldehydes into a mixture of acid and alcohol, invert sugars, digest proteins), coagulate (clot blood, curdle milk), reduce or decompose (lactic acid and alcohol fermentations), oxidize (convert alcohol into acetic acid.)

J.U. STARKWEATHER CO., INC.

New England Distributors of
Rapidase and **Serizyme**
for De-Sizing

PROVIDENCE, RHODE ISLAND

Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
†Takamine Lab, Inc, 193 Arlington Av, Clifton, N J	Prescott 9-4776

ENZYMES

FUNGAL—BACTERIAL—GLANDULAR

CLARASE—The standard enzyme for starch conversions.

PROTEASE—A concentrated trypsin.

PANCREATIN—A stable, extremely potent product containing amylase, protease, and lipase.

MALT DIASTASE—An amylase prepared to U. S. P. IX specifications.

PENICILLINASE—A special enzyme for testing penicillin.

DEXTRINASE—An amylase selected for its high starch converting action. Has appreciable proteolytic activity.

H T-44—A high temperature enzyme standardized for both amylase and protease.

TAKAMINE LABORATORY, INC.

CLIFTON, NEW JERSEY

ENZYMES (cont'd)

Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Anton-Murray Co, Chicago, Ill
†Hathaway Allied Prods, Los Angeles, Calif
†Malt Diastase Co, Bklyn, N Y
†Royce Chem Co, Carlton Hill, N J
Siber, Hegner & Co, Inc, N Y

EPHEDRINE HYDROCHLORIDE

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

EPICHLOROHYDRIN (Chloropropylene Oxide)

$CH_2Cl.CHO.CH_2$. M.W. 92.52. Colorl. liq. Miscible alcohol, ether. B.P. about 117° C. Uses—solvent for resins, manuf. intermediates, lacquer for negatives, solvent for nitrocellulose, manuf. Zapon and other lacquers, cement for cellulose, test for nicotine (Melzer).

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400

EPINEPHRINE

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400

†Purocaine, Inc, N Y

ERGOSTEROL

$C_{28}H_{44}O$. M.W. 382.61. White, crystalline solid. M.P. 160-163°C. Sol. in common organic solvents, but insol. in water. One of the sterols important in the synthesis of biologicals.

ERGOSTEROL (cont'd)

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Dawe's Vitamins, Inc, 4800 S Richmond St, Chicago, Ill — Virginia 3710
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

†Biorganic Labs, Inc, Bklyn, N Y
†Blum, Paul, Co, Buffalo, N Y
†Montrose Chem Co, Newark, N J

ESTRADIOL

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
†Fallek Prods Co Inc, 163 Bway, N Y — Barclay 7-7939
†Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

†Biorganic Labs, Inc, Bklyn, N Y

ESCULIN

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445

ESTROGENIC SUBSTANCES

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200

†Biorganic Labs, Inc, Bklyn, N Y

ETHANE

C_2H_6. M.W. 30.05. Saturated hydrocarbon of the methane series, a colorless gas. d (air = 1) = 1.049. F.P. —172°C. Slightly sol. water, alcohol, ether. Uses—to enrich illuminating gas.

Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio

ETHER (Sulfuric Ether, Anaesthesia Ether, Ethyl Ether, Vinic Ether)

$(C_2H_5)_2O$. M.W. 74.08. Colorless, inflam. volatile liq., pleasant aromatic odor. Sp. gr. 0.714. M.P. —116.2°C. B.P. 34.5°C. F.P. below 10°F. Sol. water, alcohol, benzine, chloroform. Wght. per gal. at 25°C. 5.90 lbs. (approx.). Uses—mfr. intermediates, organic chemicals, rayon, pyroxylin products; solvent dyes, fats, oils, gums, waxes, resins, alkaloids, nitrocellulose, collodion, perfumes and smokeless powd.; solvent in chemical processes; alcohol denaturant; laboratory reagent; extracting fats, oils, gums, resins; gasoline engine primer; in medicine. Grades—U.S.P.; C.P.; concentrated; U.S.P. for anaesthesia; U.S.P. 1880; washed; anhydrous; motor. (Anaesthesia unfit for use after 24 hrs. exposure to air).

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Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

ETHER (cont'd)

Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

Elk, B R, Co, Inc, Garfield, N J — McClellan, G C, & Co, Boston, Mass

ETHER ALLYL

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

ETHER AMYL

Mixture of di-isoamyl ether and di-n-amyl ether, with formulas n.-$(CH_3.CH_2.CH_2.CH_2CH_2)_2O$; b. $[(CH_3)_2CH.CH_2.CH_2]_2O$. B.P. n. 190°C.; b. 172°C. Clear or light yellow liq. Sp. gr. (20°C.) 0.805. Distillation—initial above 170°C., 90% below 200°C., final not above 230°C. Weight per gal., 6.6 lbs. Insol. water, miscible with ether. Uses—as a solvent.

†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

ETHER BUTYL, NORMAL (Dibutyl Ether)

$C_4H_9OC_4H_9$. M.W. 30.22. Colorless, stable ether. Solvent for gums, resins, oils, organic acids, esters, and alkaloids. Forms explosive peroxides. Uses: extracting agent, purifier for other solvents.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570

ETHER DIBENZYL (Benzyl Ether)

$(C_6H_5CH_2)2O$. Colorless oil. Density, 1.0428; m.p., 4-5°C, b.p., 295-9°C. Sol. alcohol, ether; insol. water. Uses: plasticizer for synthetic rubber, in organic syntheses; laboratory reagent.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570

Kendall, J A, Akron, O

ETHER DICHLORODIPHENYL (x-Dichloro [Phenyl Ether])

$Cl_2(C_6HxOC_6Hy)$, where x + y = 8. M.W. 239.1. Clear, colorless to pale straw-colored, highly refractive liquid. Completely miscible in acetone, benzene, ether; sol. alcohol. carbon tetrachloride, petroleum ether; insol. water.

†Dow Chem Co, Midland, Mich — Midland 500

ETHER DICHLOROETHYL

$ClCH_2CH_2OCH_2CH_2Cl$. M.W. 143. Chloroform-like odor. Uses: soil fumigation, insecticide; solvent; in textile processes where high temperatures are necessary.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Dow Chem Co, Midland, Mich — Midland 500
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610

ETHER DICHLOROISOPROPYL (2,2'-Dichlordiisopropyl Ether)

$ClCH_2(CH_3)CHOCH(CH_3)CH_2Cl$. M.W. 171. High boiling liquid. Uses: in textile processes where high temperatures are necessary; solvent; intermediate in mfg. of dyes, resins, certain pharmaceuticals.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Dow Chem Co, Midland, Mich — Midland 500

ETHER DIETHYLENE GLYCOL MONOBUTYL (Butyl Carbitol)

$C_4H_9OCH_2CH_2OCH_2CH_2OH$. M.W. 162.14. B.P. 231.2°C. Sp. gr. 0.9553. Colorless, practically odorless liq. Sol. water, oils. Uses—solvent for nitrocellulose, hydroxylin lacquers, dopes, pyroxylin plastics, printing inks, resins, soaps, oils; mfr. specialty soaps and textile oils.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970

ETHER DIETHYLENE GLYCOL MONOETHYL (Carbitol)

$CH_3OH.CH_2OCH_2CH_2OC_2H_5$. Colorless liq. B.P. 201.9°C. Sol. alcohol, ether. Uses—mfr. cellulose ester varnishes, plastics; as solvent. Grades—tech.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ETHER DIETHYLENE GLYCOL MONOMETHYL (Methyl Carbitol)

$CH_3OCH_2CH_2OCH_2CH_2OH$. M.W. 120.09. B.P. 193.2°C. Sp. gr. 20/20°C., 1.030 to 1.040. Odor, mild, non-residual. Water-white liq.; miscible with usual organic solvents, sol. in water. Weight per gal., 8.61 at 20°C. Uses—solvent for resins, cellulose acetate, nitrocellulose, refined castor oil, shellac, ester gums, waxes, lacquers; mfr. wood stains, cosmetics, textile dyestuffs, printing inks and pastes.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ETHER DIMETHYL (Methyl Ether, Methyl Oxide, Wood Ether, Methoxymethane)

CH_3OCH_3. **Colorless gas. Density, 2.091g/l; m.p. -138.5; b.p. -23.65. Sol. water, alcohol, ether. Uses: refrigerant; solvent; extraction agent; propellant for sprays.**

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio

ETHER ETHYLENE GLYCOL DIETHYL (Ethylene Glycol Diethyl Ether)

Colorless liquid with slight ethereal odor. Sol. in water. Uses—Mutual solvent for oil and water combinations, indetergents and wetting agents. May be used as inert reaction medium.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ETHER ETHYLENE GLYCOL ETHYLBUTYL

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

ETHER ETHYLENE GLYCOL MONOBUTYL (Ethylene Glycol Monobutyl Ether, Butyl Cellosolve)

$OHCH_2CH_2OC_4H_9$. Liq. Sp. gr. .9017 at 20/20. B.P. 170.6°C. Sol. alcohol ether. Uses—solvent in paints, varnishes, lacquers, plastics. Grades—tech.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ETHER ETHYLENE GLYCOL MONOETHYL (Cellosolve)

$OHCH_2CH_2OC_2H_5$. M.W. 90.08. Liq. Sp. gr. .9311 at 20/20°C. B.P. 135.1°C. Sol. alcohol and water, ether. Uses—solvent in paints, varnishes, plastics; also as a dye solvent. Grades—tech.

Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ETHER ETHYLENE GLYCOL MONOMETHYL (Ethylene Glycol Monomethyl Ether, Methyl Cellosolve)

$CH_3OCH_2CH_2OH$. M.W. 76.06. B.P. 124.3°C. Water-white liq. Sp. gr. 0.9660 at 20/20°C. Weight per gal. 8.1 lbs., at 20°C. Uses—solvent for low viscosity cellulose acetate, nitrocellulose; with petroleum hydrocarbons provides thinner for certain varnishes; solvent for dyes; sealing moisture-proof transparent wrapping; in dry cleaning soaps.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

ETHER ETHYLENE GLYCOL MONOPHENYL

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120

ETHER HEXYL (Normal Hexyl Ether)

$C_6H_{13}OC_6H_{13}$. M.W. 186.33. **Mild-odored, stable liquid. Sp. gr. 0.7942. B.P. 226.2°C. Uses—Medium for chemical reactions which are carried out in strict ethereal vehicle. Also useful as component of foam breakers.**

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

ETHER ISOPROPYL

$(CH_3)_2CH.O.CH(CH_3)_2$. Colorless liq. of ethereal odor. B.P. 67.5°C. Commercial product is sol. in water to extent of 0.65% by volume at 25°C., while water is soluble in it to the extent of 0.025% at same temperature. Sp. gr. .7258 at 20°/20°C. Uses—solvent for animal, vegetable and mineral oils, fats, waxes and resins; concentration of organic acids by extraction; oil dewaxing.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412

ETHER ISOPROPYL (cont'd)

Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420

ETHER NORMAL BUTYL (Butylcxide, Butoxybutane)

$C_4H_9OC_4H_9$. M.W. 130.14. B.P. 140.9°C. Sp. gr. 0.769. Colorless, stable liq. Miscible most organic solvents, practically insol. water. Uses—in extraction processes; solvent for natural and synthetic gums, resins, oils, organic acids and esters.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000

ETHER VINYL n-BUTYL

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Amer Pyroxylin Corp, Arlington, N J	

ETHER VINYL CHLOROETHYL

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000

ETHER VINYL METHOXYETHYL

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000

ETHOXYDIGLYCOL PHTHALATE

†Ohio-Apex Inc, Nitro, W Va	Nitro 152

ETHOXY GLYCOL PHTHALATE

Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Ohio-Apex Inc, Nitro, W Va	Nitro 152
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420

ETHYL ACETATE (Acetic Ether, Aether Aceticus, Vinegar Naphtha)

$CH_3COOC_2H_5$. Colorless, inflam. liq., fragrant odor. Sp. gr. 0.9003. M.P.—82.4°C. B. P. 77.15°C. Sol. Water, alcohol, chloroform, ether. Uses—mfr. synth. dyes, drugs and perfumes, intermediate chemicals, artificial horse hair for brushes, phosgene gas; solvent for pyroxylin and nitrocellulose plastics, organic chemicals, aceto-acetic ester, of nitrocellulose in artificial leather, artificial fruit flavors, smokeless powd., nitrocellulose varnishes, paints and dopes, perfumes, photographic films and plates, rayon; cleaning textiles; in medicine. Grades—pure anhydrous refined (various grades), tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 9-2670
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Gray, Wm S, & Co, 342 Madisen Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910

ETHYL ACETATE

Commercial grade 90%

Nitrocellulose solvent for lacquers and coating manufacture; also used as a general solvent and for cleaning.

MONSANTO CHEMICAL COMPANY
Boston 49, Mass.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY . . . WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

ETHYL ACETATE (cont'd)

Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 3-3655
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

ethyl acetate

● Eastman ethyl acetate is an excellent fast-evaporating solvent for use in lacquers, varnishes, paints and pyroxylin plastics. It may be employed as a process solvent in the manufacture of drugs, perfumes and various chemical intermediates.

Eastman ethyl acetate is normally furnished with ST-115 as denaturant, but special denaturants can be supplied on request. Available in drums, compartmented and full tank cars.

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Co.)
KINGSPORT, TENNESSEE

EASTMAN INDUSTRIAL CHEMICALS

Sales Reps in principal cities—see ad in Catalog Section.

Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Shawinigan Prods Corp, 350 5 Av, N Y	Chickering 4-1243
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
★†Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200
McClellan, G C, & Co, Boston, Mass	†Publicker Industries, Inc, Phila, Pa
Phillips & Martin Co, Chicago, Ill	Senn, George, Inc, Phila, Pa

ETHYL ACETOACETATE (Diacetic Ester, Acetoacetic Ester)

$CH_3COCH_2COOC_2H_5$. Colorless or slightly yellowish liq., fruity odor. Sp. gr. 1.025. B.P. 94°C. (45 mm). Sol. benzene, chloroform, alcohol; slightly sol. water. Uses—mfr. antipyrine, intermediates, organic chemicals, ionone and other synth. perfumes. Grades—tech.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

ETHYL ACETYL RICINOLEATE (Ethyl 12-Acetoxy Ricinoleate)

$C_5H_{11}CH(OOC\text{-}CH_3)\text{-}CH_2CH{=}CH\text{-}(CH_2)\text{-}COOC_2H_5$. M.W. 368.6. Bright, clear, straw-colored liquid; low viscosity. Uses: plasticizer.

†Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500

ETHYL ACETYLENE (1-Butyne)

$C_2H_5\text{-}C{\equiv}CH$. M.W. 54.09. Colorless gas. Use: organic syntheses.

†Farchan Research Labs, 609 E 127 St, Cleveland, O	Glenville 1-8749

ETHYL ACETATE

Ethyl Acetate . . . one of the most widely used nitrocellulose solvents . . . is supplied by Carbide and Carbon Chemicals in three grades: a 99 per cent grade, a 95 to 98 per cent grade, and an 85 to 90 per cent grade. Ethyl Acetate can be supplied in 55-gallon containers, compartments, and straight tank cars.

For list of other products see our catalog ad.

Carbide and Carbon Chemicals Division
Union Carbide and Carbon Corporation
30 East 42nd Street UCC New York 17, N. Y.
Offices in Principal Cities

ETHYL ACID PHOSPHATE (Monoethyl Acid Orthophosphate)

$C_2H_5H_2PO_4$. M. W. 126. Specific Gravity 1.430 (25°C.) Refractive index 1.427 (ND). Decomposition point 165-170°C. Sol. in water, alcohol, acetone, ether, and naptha. Insol. in toluene and CCl_4.

†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

ETHYL ACRYLATE

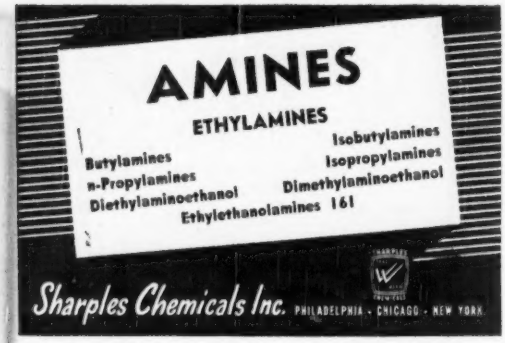
$CH_2:CHOO_2C_2H_5$. M.W. 100. B.P. 99.5°C. Uses: polymerization, chemical intermediate.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Amer Pyroxylin Corp, Arlington, N J

ETHYLAMINE (Amidoethane, Aminoethane)

$C_2H_5NH_2$. M.W. 45.06. Colorless liq., with NH_3 odor. Sp. gr. 0.689 (15°C.). B.P. 16.6°C. Sol. alcohol, ether, water. Uses—mfr. intermediates, dyes; in electroplating.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802



ETHYL p-AMINOBENZOATE (Benzocaine, p-Aminobenzoic-Acid Ethylester, Anaesthesin)

$NH_2.C_6H_4.CO_2C_2H_5$. M.W. 165.19. White, odorless, tasteless crystals or crystalline powder. Insol. water. Sol. alcohol, ether. Uses—medicine.

†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Richmond Chem Corp, Staten Is, N Y

ETHYL ANILINE (Normal)

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ETHYL ANTHRANILATE

†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

ETHYL BENZENE

$C_6H_5(C_2H_5)$. B.P. range 134.8-138.0°C. at 760 mm.; sp. gr. 0.866 at 25/25°C.; dielectric constant 2.34; flash pt. 20°C.; fire pt. 21°C. Uses—organic synthesis, solvents for plastics, resins.

†Dow Chem Co, Midland, Mich — Midland 500
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
†Pharma Chem Corp, N Y

n-ETHYL BENZENESULFONAMIDE

$C_6H_5SO_2NHC_2H_5$. M.W. 173.14. White to cream colored crystalline solid. M.P. 57-59°C. B.P. 164-5°C. Uses: plasticizer for certain resins; in prep. of condensation products with aldehydes; intermediate in synthesis of pharmaceuticals, dyestuffs, and other organic chemicals.

†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700
†Pharma Chem Corp, N Y

ETHYL BENZOATE (Benzoic Ether)

$C_6H_5COOC_2H_5$. M.W. 150.08. Clear, colorless refractory, aromatic liq. Sol. alcohol, ether, chloroform, petroleum ether; also insol. water. B.P. 213.2°C. Sp. gr. 1.047. Uses—mfr. perfumes.

ETHYL BENZOATE (cont'd)

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ETHYL-o-BENZOYL BENZOATE

$C_6H_5COC_6H_4COOC_2H_5$. M.P. 56-58°C. B.P. 325°C. at 760 mm. White crystalline solid, practically odorless, colorless, and non-volatile at ordinary temperatures. Insoluble water, very soluble most organic solvents, including alcohol, acetone, ethyl acetate, benzol. Uses—as a plasticizer.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Pharma Chem Corp, N Y

ETHYL BENZYL ANILINE

$C_6H_5N(C_2H_5)CH_2C_6H_5$. Colorless liq. Sp. gr. 1.034. B.P. 286°C. Sol. alcohol, ether. Uses—mfr. intermediates, organic chemicals, dyes. Grades—tech.

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Pharma Chem Corp, N Y

ETHYL BORATE (Triethyl Borate, Triethoxyboron)

$B(OC_2H_5)_3$. M.W. 146.00. Colorless liquid. Density @ 26.5°C. 0.864. B.P. 120°C. Decomposes in water. Sol. alcohol, ether.

†Pharma Chem Corp, N Y

ETHYL BROMIDE (Bromic Ether, Bromomethane, Ethyl Hydrobromic, Monobromoethane)

C_2H_5Br. Colorless, inflam., volatile liq. Sp. gr. 1.450. B.P. 38°C. (15°C.). Sol. alcohol, ether; sparingly sol. water. Uses—mfr. intermediates, organic chemicals, synthetic dyes, drugs and perfumes; as refrigerant; in medicine. Grades—tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
Lo Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
†Michigan Chem Corp, St Louis, Michigan — 41
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Pharma Chem Corp, N Y

2-ETHYL BUTYL ACETATE

$C_2H_5CH(C_2H_5)CH_2OCOCH_3$. Colorless liq. B.P. 162.4°C. Sp. gr. is .8803 at 20°/20°C. Insol. water, sol. in organic solvents. Uses—lacquer solvent.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

ETHYLBUTYL KETONE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

2-ETHYLBUTYRALDEHYDE

$C_6H_{12}O$. M.W. 100.16. Colorless liquid. B.P. 116° C. Sp. gr. 0.8164 (20° C.). Insol. in water. Uses—mfr. pharmaceuticals, rubber accelerators, and synthetic resins; starting compound in organic syntheses.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

ETHYL BUTYRATE

$C_3H_7COOC_2H_5$. Water white liq. B.P. 121.3°C. Sp. gr. 0.879. Misc. alcohol, ether, insol. water. Uses—mfr. perfumery and flavors.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200
†Felton Chem Co, Inc, Bklyn, N Y
†May, Otto B, Inc, Newark, N J

ETHYL CARBAMATE (Urethan)

$NH_2CO_2C_2H_5$. Colorless needles. Sp. gr. 0.986 at 20°C.; M.P. 49°C.; B.P. 184°C. Sol. water, alcohol, ether. Uses—in medicine, organic synthesis.

Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

ETHYL CELLULOSE

Cellulose ether. A non-inflammable, white, granular material; soluble in many cheap solvents; and stable in exposure to light. Film is flexible at low temperatures. Uses—in films, lacquers, and plastics; may be used as toughening agent for plastics, protective coatings, and textile finishing.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
†Dow Chem Co, Midland, Mich — Midland 500
†Hercules Powder Co, 978 Market St, Wilmington, Del
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ETHYL CHLORIDE (Monochloroethane, Chlorethane, Hydrochloric Ether, Muriatic Ether)

C_2H_5Cl. Gas. Also colorless, highly inflam. liq. Sp. gr. 0.9214. B.P. 12.5°C. Miscible alcohol, ether; slightly sol. water. Uses—as refrigerant; solvent for phosphorus, fats, oils, resins, waxes; laboratory reagent; alkylating agent in making intermediates, organic chemicals, dyes, etc.; insecticide ingredient; in medicine. Grades—U. S. P.; tech.

Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Dow Chem Co, Midland, Mich — Midland 500
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio

ETHYL CHLOROACETATE

†Dow Chem Co, Midland, Mich — Midland 500
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

ETHYL CHLOROFORMATE (Ethyl Chlorocarbonate)

$ClCOO.C_2H_5$. Colorless liq. Sp. gr. 1.139. B.P. 94°C. Sol. alcohol, ether. Uses—mfr. intermediates, organic chemicals, flotation reagents. Grades—tech.

†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

ETHYL CINNAMATE (Cinnamic ether)

$C_6H_5C_2CO_2C_2H_5$. Oily liquid, strawberry-like odor. Sp. gr. 1.05. M.P. 12°C. B.P. 271°C. Sol. alcohol, ether. Insol. water. Cont.—100 lb. drums, 50 lb. carboys. 1, 5, 10 lb cans or bottles. Uses—perfuming and flavoring.

†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ETHYL CROTONATE

†Algo Chem Co, Detroit, Mich

ETHYL CYANOACETATE

$CH_2CNCOOC_2H_5$. M.W. 113.11. Almost colorless liquid, with a sweetish odor. B.P. 205.3-209.1° C. Slightly sol. in water; sol. in acetate esters; insol. in ether and carbon tetrachloride. Sp. gr. 1.059 at 25° C. Flash pt. 1.04° C. Wt. per gal., 8.8 lbs. at 25° C. Uses—mfr. pharmaceutical intermediates; intermediate in general organic synthesis.

· KAY-FRIES ·

★ ethyl cyanoacetate ★

★ ethyl phenylacetate ★

American-British Chemical Supplies, Inc.

180 MADISON AVE. NEW YORK 16, N. Y.

Selling Agents For

KAY FRIES CHEMICALS INC.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
†Dow Chem Co, Midland, Mich — Midland 500
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Bodman, F L, Inc, Phila, Pa

ETHYL CYCLOHEXANE

†Dow Chem Co, Midland, Mich — Midland 500

ETHYL DIFLUOROACETATE

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419

ETHYL FORMATE (Formic Ether)

$HCO_2C_2H_5$. Colorless, inflam. liq. sol. water, alcohol, ether. Uses—as an insecticide, larvacide, in mfr. drugs, perfumes; in medicine. Grades—tech.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200
†Felton Chem Co, Inc, Bklyn, N Y — †Trubek Labs, Inc, E Rutherford, N J

ETHYL o-FORMATE

$CH(OC_2H_5)_3$.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600

2-ETHYLHEXALDEHYDE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

ETHYLHEXANEDIOL (2-Ethylhexanediol-1,3-Ethylhexylene Glycol)

$CH_3CH_2CH_2CH(OH)CH(C_2H_5)CH_2OH$. M.W. 146.22. B.P. 244°C. Non-volatile; colorless; faint odor. Uses: insect repellant, in liquid form or in a cosmetic cream.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

2-ETHYLHEXYL ACETATE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

ETHYLHEXYL AMINE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

2-ETHYL HEXYL BROMIDE

†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

ETHYLHEXYL CHLORIDE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

ETHYL p-HYDROXY BENZOATE

†Chemo Pure Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

ETHYL HYDROXYISOBUTYRATE

†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

ETHYL IODIDE (Monoiodoethane, Ether Hydriodic)

C_2H_5I. M.W. 155.97. Colorless liq. Sp. gr. 1.940 (15°C.). M.P. —108.5°C. B.P. 72°C. Sol. benzene, chloroform, ether, alcohol; slightly sol. water. Uses—mfr. intermediates, organic chemicals, perfumes; in medicine. Grades—tech.; U.S.P.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

ETHYL ISOBUTYRATE

Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ETHYL LACTATE (Lactic Ether, Ethyl Alphaoxypropionate)

$CH_3CHOHCOOC_2H_5$. Colorless liq. Sp. gr. 1.024—1.036 (15°C.). B.P. 154°C. Miscible alcohol, ether, and water with partial decomposition. Uses—solvent cellulose acetate and nitrocellulose; in medicine. Grades—tech.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

ETHYL LACTATE (cont'd)

Dee & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Export Finders Bureau, 6 Bridge St, N Y — Bowling Green 9-2912
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

ETHYL LAURATE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ETHYL LEVULINATE

Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

ETHYL LITHIUM

†Algo Chem Co, Detroit, Mich

ETHYL MALEATE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

ETHYL MALONATE

$CH_2(CO_2C_2H_5)_2$. M.W. 160.17. Colorless liquid, sp. gr. 1.055 at 20°. M.P. —49.8°C. B.P. 198.9°. Very slightly sol. water. Sol. alcohol, ether. Uses—intermediate.

†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

ETHYL MERCAPTAN

C_2H_5SH. M.W. 62.07. Volatile liquid of extremely strong, "skunk-like" odor. B.P.° C. Sp. gr. 0.840 (25/25° C). Wt. per gal. 7.01 lbs. Flash point, about 3° F. Uses—warning agent, odorizer, in natural and petroleum fuel gas systems; warning agent indicating overheating of machines, when sealed in a low-metal alloy within the machine.

†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Universal Mfg Co, P O Box 2427, Houston, Tex — Wentworth 7475

Wholesale Supply Co, Los Angeles, Calif

ETHYL METHACRYLATE

$CH_2{:}C{-}(CH_3){-}(CO_2)C_2H_5$. M. W. 114. Water-white, mobile volatile liquid with pronounced agreeable odor. Uses: polymerization.

†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

ETHYL MONOBROMOACETATE

$CH_2Br.COOC_2H_5$. M.W. 167.0. Colorless to slightly yellow liquid, very irritating to the eyes. Sp. gr. 1.507 at 25/4°C. Weight per gal. 12.5 lbs. at 25°C. Boiling range 158.0-160.0°C.; with slight decomposition; completely miscible alcohol, ether; insol. water. Uses—mfr. tear gases.

†Dow Chem Co, Midland, Mich — Midland 500
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

ETHYL MONOCHLOROACETATE (Monochloracetic Ether)

$CH_2ClCOOC_2H_5$. Colorless liq., pungent odor. Sp. gr. 1.157 (15° C). B.P. 144°C. Sol alcohol, ether; insol. water. Uses—mfr intermediates, organic chemicals. Vapors injurious to eyes. Grades—tech.

†Dow Chem Co, Midland, Mich — Midland 500
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

ETHYL MONOETHANOLAMINE

Ethyl Monoethanolamine is a water-white liquid possessing an amine-like odor. The specific gravity at 20°C. is 0.914 and the Engler distillation range is 160-167°C.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

ETHYL MONOETHYLAMINE

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ETHYL MORPHOLINE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ETHYL MYRISTATE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

ETHYL NITRATE (Nitric Ether)

$C_2H_5ONO_2$. M.W. 91.05. Colorless liq., pleasant odor. Sp. gr. 1.105. B.P. 88.7°C. Sol. alcohol, ether. Uses—mfr. organic chemicals, intermediates, synthetic dyes, drugs, perfumes. Grades—tech.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ETHYL NITRITE

†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110

ETHYL OLEATE

$C_{17}H_{33}COOC_2H_5$. Uses—solvent, plasticizer, lubricant.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

ETHYL OXALATE (Diethyl Oxalate, Oxalic Ether)

$(C_2H_5)_2(COO)_2$. Water-white liq., aromatic odor. Sp. gr. 1.083 (15°C.). B.P. 186.1°C. Sol. alcohol, ether. Decomposed by water. Uses—mfr perfume preparations, dyes, organic chemicals, lacquers. Grades—tech.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

ETHYL PHENYL ACETATE

$C_6H_5.CH_2.CO_2C_2H_5$. M.W. 164.20. Colorless liquid, sp. gr. 1.033 at 20°C. B.P. 227°C. Insol. water. Sol. alcohol, ether.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Maywood Chem Wks, 100 W Hunter Av, Maywood N J — Hackensack 2-2020
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

††Trubek Labs, Inc, E Rutherford, N J

ETHYL PHENYL ETHANOLAMINE

$C_6H_5N(C_2H_5)\ CH_2CH_2OH$. M.W. 165.13. Colorless liquid. B.P. 268° C. at 740 mm. Sp. gr. 1.04 at 20° C. Wt. per gal., 8.7 lbs. Slightly sol. in water. Uses—intermediate in mfr. acetate azo dyestuffs and other compounds.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

ETHYL PHOSPHATE

$(C_2H_5)_3PO_4$.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

ETHYL m-PHOSPHATE

$(C_2H_5OPO_3)$. M.W. 108. Colorless, odorless thick liq. Sol. water with decomposition. Sol. chloroform. Uses—phosphorylating agent.

†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

ETHYL PROPIONATE (Propionic Ether, Propionic Esters)

$C_2H_5COOC_2H_5$. Colorless liq. Sp. gr. 0.891. B.p. 99.1°C. Sol. alcohol, ether, water. Uses—solvent nitrocellulose; ingredient of soft drinks and fruit syrups. Grades—commercial.

Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

2-ETHYL 3-PROPYL ACROLEIN (2-ETHYLHEXANAL)

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

ETHYL RICINOLEATE—see also Fatty Acid Esters

HO. $C_{17}H_{32}CO_2$. C_2H_5. Appearance, bright clear yellow, free from moisture and suspended matter. Density 7.74 (1 gal. 15°C). Sp. Gr. (929 at 15°C.). Boiling Pt. 225°C. Uses—paints, lacquers, nitrocellulose coatings.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Baker Caster Oil Co, 119 Bway, N Y — Digby 9-0500
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

ETHYL SALICYLATE

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dow Chem Co, Midland, Mich — Midland 500
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ETHYL SEBACATE

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

†Felton Chem Co, Inc, Bklyn, N Y

ETHYL SILICATE (Tetraethyl Ortho-Silicate)

$(C_2H_5)_4SiO_4$ is a colorless, faintly odored liq. B.P. 165°C. Water slowly hydrolyzes it to alcohol and silicic acid which in turn dehydrates to an adhesive form of silica. Av. wght., 7.77 lbs. per gal. at 20°C. Uses—as a preservative for hardening stone and arresting decay and disintegration; used in paints where heat is encountered; mixed with siliceous powders to form weather and acid-proof mortar and cements, refractory bricks and other molded objects.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912

ETHYL SODIUM OXALACETATE (Sodium Ethyl Oxalacetate)

†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

ETHYL STEARATE

$C_{17}H_{35}CO_2C_2H_5$. M.W. 312.51. Colorless crystals. M.P. 34.7. B.P. 199-201° @ 10 mm. Insol. water. Sol. ether.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

ETHYL SUCCINATE

$COOC_2H_5CH_2CH_2COOC_2H_5$.

Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140

ETHYL-p-TOLUENE SULFONATE (p-Toluene Sulfo Ethyl Ether)

$CH_3C_6H_4(SO_3C_2H_5)$. M.W. 200. White coarsely ground crystalline solid at 20° C. M.P. 33° C. Uses: dyestuff intermediate; ethylating agent.

†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ETHYL TRIFLUOROACETATE

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Dow Chem Co, Midland, Mich — Midland 500
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

ETHYL VALERATE (Ethyl Valerianate, Valeric Ether)

$C_4H_9COOC_2H_5$. M.W. 130.11. Colorless liq. B.P. 145.5°C. Sp. gr. 0.877. Ester value 431.5. Misc. alcohol, ether; insol. water. Uses—mfr. flavors, perfumery; in medicine.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570

ETHYL VANILLIN (Ethyl Protocatechuic)

M.P. 76.5° C. Sol. alcohol. Fine, white or sltl. yellow needles. Characteristic odor. 3 to 1 flavoring strength compared with vanillin

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

Felton Chem Co, Inc, Bklyn, N Y

ETHYLENE (Ethene, Etherin, Elayl, Bicarburetted Hydrogen, Heavy Carburetted Hydrogen, Olefiant Gas)

$CH_2{:}CH_2$. M.W. 28.03. Colorless, inflam. gas, sweet odor. Sp. gr. 0.978. B P. —103.8°C. Liquefies at 0°C. and 42 atmospheres. Solidifies at —169.4°C. Sol. water, alcohol, ether. Uses—mfr. intermediates, organic chemicals, mustard gas, synthetic ethyl alcohol; in oxy-ethylene welding and cutting of metals; in medicine. Grades—tech.

Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

Edison, Thomas A, Inc, Stuyvesant Falls, N Y
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio

ETHYLENE BROMIDE (Dibromoethane, Ethylene Dibromide)

CH_2BrCH_2Br. Colorless liq., chloroform-like odor. Sp. gr. 2.189 (15°C.). M.P. 9-10°C. B.P. 129-131°C. Miscible alcohol, ether. Very slightly sol. water. Poisonous. Uses—mfr. organic chemicals, ethylene glycol, piperazin, intermediates, synthetic drugs; solvent in making celluloid; in medicine. Grades—tech.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
†Eston Chems Inc, 3100 E 26 St, Los Angeles, Calif — Angelus 9-8183
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

ETHYLENE CHLOROBROMIDE (Symmetrical Chlorbromethane)

$CH_2Cl.CH_2Br$. M.W. 143.4. Clear, colorless volatile liquid with a chloroform odor. Sp. gr. 1.790 at 0°C. Weight per gal. 14.9 lbs. at 0°C. B.P. 106.7°C. F.P. —16.6°C. Miscible with most organic solvents; insol. water. Uses—as a solvent; in organic synthesis.

†Dow Chem Co, Midland, Mich — Midland 500
†Eston Chems Inc, 3100 E 26 St, Los Angeles, Calif — Angelus 9-8183

ETHYLENE CYANOHYDRIN (B-Hydroxypropionitrile, Hydracrylonitrile)

$HOCH_2CH_2CN$. M.W. 71.05. Straw colored liquid. B.P. 277°C. Sol. water, acetone, methyl ethyl ketone, ethanol, chloroform, diethyl ether. Insol. benzene, carbon tetrachloride, naphtha. Uses: solvent, organic intermediate.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

ETHYLENE DIAMINE

$NH_2CH_2CH_2NH_2$. M.W. 60.08. Colorless liq., ammonia odor. Sp. gr. 0.892. M.P. 8.5°C. B.P. 117°C. Sol. water. Uses—solvent for albumen and the like; in medicine. Grades—tech.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

ETHYLENE DIBROMIDE—see Ethylene Bromide

ETHYLENE DICHLORIDE (Ethylene Chloride, Dichloroethane)

$CH_2Cl.CH_2Cl$. Colorless liq., pleasant chloroform like odor. M.W. 96.9. Sp. gr. 1.278 (15°/4°C.). Pounds/gal., 10.7. B.P. 55.0°C. F.P. —80.5°C. V.D. (15°C.), lbs./cu. ft., 0.241. Latent Heat of Vap., B.T.U./lb., 127.8. S.H., cal./kg./°C. or B.T.U./lb./°F., 0.270 (20°C.). Sol. only very slightly, sol. in water, alcohol, ether. Uses—mfr. intermediate, ethylenediamine, glycol monosalicylate, glyco monocinnamate, tobacco extracts, organic chemicals, cleaning fluids; extracting nicotine from tobacco; for food fumigating; with alcohol, rubber, soap and degreasing; in medicine. Grades—tech.

ETHYLENE DICHLORIDE

Ethylene Dichloride . . . with a maximum acidity of 0.001 per cent by weight calculated as HCl and a minimum purity of 99 per cent by weight . . . is supplied by Carbide and Carbon Chemicals in 55-gallon containers, compartments, and straight tank cars.

For list of other products see our catalog ad.

Carbide and Carbon Chemicals Division
Union Carbide and Carbon Corporation
30 East 42nd Street UCC New York 17, N. Y.
Offices in Principal Cities

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Ecclestone Chem Co, Inc, 2669-79 Gusin St, Detroit, Mich — Le 7-4650

ETHYLENE DICHLORIDE

DOW

THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products

Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.

See listing ad for other products

ETHYLENE DICHLORIDE (cont'd)

Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700

ETHYLENE DICHLORIDE • PROPYLENE DICHLORIDE

Samples and data available upon request

Wyandotte
REG. U. S. PAT. OFF.

WYANDOTTE CHEMICALS CORPORATION
WYANDOTTE, MICHIGAN • OFFICES IN PRINCIPAL CITIES

Soda Ash • Caustic Soda • Bicarbonate of Soda • Calcium Chloride
Calcium Carbonate • Chlorine • Hydrogen • Dry Ice • Synthetic Detergents • Glycols • Carbose (Sodium CMC) • Ethylene Dichloride • Propylene Dichloride • Aromatic Sulfonic Acid Derivatives
Other Organic and Inorganic Chemicals

ETHYLENE GLYCOL (Glycol, Alcohol Ethylene, Alcohol Glycol, Alcohol Glycohol)

$CH_2OH.CH_2OH$. M.W. 62.05. Clear syrupy, hygroscopic liq. Sp. gr. 1.1155 at 20/20°C. B.P. 197.37°C. F.P. —17.4°C. Miscible water, alcohol, ether. Uses—mfr. glycol diacetate, low freezing dynamites, toilet preparations, face creams; general solvent; solvent for dyes, waxes, resins, intermediate and organic chemicals, drugs, moistening tobacco; assist in dyeing and finishing textiles; preserving leather; treating skins and furs; non-freezing compound for automobile radiators. Grades—tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Dow Chem Co, Midland, Mich	Midland 500
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Galwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Jefferson Chem Co Inc, 711 5 Av, N Y	Plaza 9-3900
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Newberg, Wm D, Co, Inc, 420 Lexington Av, N Y	Oregon 9-2550
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

ETHYLENE GLYCOL (cont'd)

Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Stoney-Mueller Inc, Page & Newark Ars, Lyndhurst, N J	Rutherford 2-7420
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700
Legion Export & Import Co, Inc, N Y	

ETHYLENE GLYCOL DIBENZENESULFONATE

$C_6H_5SO_2OC_2H_4OSO_2C_6H_5$. M.W. 330.26. White to cream colored granules. Uses: plasticizer; softener.

†Wyandotte Chems Corp, †Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

ETHYLENE GLYCOL DISTEARATE

Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
†Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hardesty, W C, Co, Inc, 41 E 42 St, N Y	Murray Hill 2-1920
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200

ETHYLENE GLYCOL ESTERS

Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
†Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Hardesty, W C, Co, Inc, 41 E 42 St, N Y	Murray Hill 2-1920
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
†Riverdale Chem Co, 324 E 147 St, Harvey, Ill	Riverdale 1880
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650

ETHYLENE GLYCOL MONOETHYL ETHER ACETATE

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ETHYLENE GLYCOL MONOMETHYL ETHER ACETATE

$CH_3OCH_2CH_2CO_2CH_3$. M.W. 118.08. B.P. 143.0°C. Sp. gr. 1.0054 at 20/20°C. Colorless, stable liq. Miscible with most organic solvents; completely sol. water. Boiling range 130-155°C. (760 mm.). Sol. in hydrocarbons, ethyl alcohol and acetate. Weight per gal., 8.37 lbs. per gal at 20°C. Uses—solvent for cellulose nitrate, gums, resins, oils; mfr. lacquers, dopes.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

ETHYLENE IODIDE

CH_2ICH_2I. Yellow monoclinic prisms from ether. M. W. 281.89. Soluble in alcohol, slightly Sol. in water. Uses—intermediate in organic syntheses.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005

ETHYLENE OXIDE

CH_2OCH_2. Colorless gas at ordinary temp., at low temp. a mobile, colorless liq. B.P. 10.7°C. Sp. gr. of liquid Ethylene Oxide is .8707 at 20/20°C. Misc. water in all proportions; sol. in usual organic solvents. Uses—fumigation, synthesis.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
†Dow Chem Co, Midland, Mich	Midland 500
†Jefferson Chem Co Inc, 711 5 Av, N Y	Plaza 9-3900

JEFFERSON CHEMICAL COMPANY, INC.
711 FIFTH AVENUE
NEW YORK 22, N. Y.

JEFFERSON CHEMICALS
TRADE MARK

ETHYLENE OXIDE • ETHYLENE GLYCOL
ETHYLENE DICHLORIDE • DIETHYLENE GLYCOL
AROMATIC DISTILLATE • POLYCHLORINATED ETHER

ETHYLENE THIOUREA (2-Imidazolidinethione)

$(CH_2\text{-}NH)C{:}S$. M.W. 102. M.P. 203-204°C. Uses: chemical intermediate.

Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Sharples Chems Inc, Phila, Pa	Kingsley 5-2802

ETHYLENEIMINE

†Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880

ETHYLIDENE DICHLORIDE

†Dow Chem Co, Midland, Mich — Midland 500
†Jefferson Chem Co Inc, 711 5 Av, N Y — Plaza 9-3900

1-ETHYNYLCYCLOHEXANOL

$C_6H_{10}(OH)C{\equiv}CH$. M.W. 124.17. Colorless liquid; characteristic odor. Uses: organic syntheses, plastics.

†Farchan Research Labs, 609 E 127 St, Cleveland, O — Glenville 1-8749

EUCALYPTOL (Cineole)

$C_{10}H_{18}O$. M.W. 154.2. Colorless liquid. Uses: medicinal, antiseptic.

†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

EUCATROPINE

$C_{15}H_{20}NO_3$. HCl. M.W. 327.76. Technical name: phenylglycoly methylvinyl-diacetonalkamine hydrochloride. White, fine granula powder having no odor. M.P. not below 183° C. Sol. in water, alcohol and chloroform; insol. in ether. Uses—as a mydriatic in ocular medicine, similar in action to atropine, but said to be free from anaesthetic and irritative action.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330

EUGENOL—see Isoeugenol

FATS, HYDROGENATED

Glyceryl esters of unsaturated fatty acids are hydrogenated to solidify them, i.e. they are treated with hydrogen to produce saturation. Uses—to prepare cooking fats, as butter or lard substitutes.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
†Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Darling & Co, 4204 S Ashland Av, Chicago, Ill — Yards 7-3000
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
Hardesty, W C, Co, Inc, 41 E 42 St, N Y — Murray Hill 2-1920
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481

FATS, HYDROGENATED (cont'd)

Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Smith, Werner G, Co, 2192 W 110 St, Cleveland, O — Woodbine 1-4690
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091
Craven, Sidney P, N Y — Tobey Chem Co, N Y
†Southern Cotton Oil Co, N Y

FRED L. BROOKE CO.
3340 N. Halsted St.
Chicago 13, Ill.

FATTY ACID ESTERS

GRaceland 7-3030

FATTY ACID ESTERS

Various esters of the fatty acids, such as stearic, oleic, linoleic, ricinoleic, etc. The fatty acids are produced by the removal of the glyceride content from neutral oils and fats, either by chemical or mechanical means. The resultant fatty acids are then distilled under vacuum of varying degrees and varying temperatures.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
†Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
†Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Hardesty, W C, Co, Inc, 41 E 42 St, N Y — Murray Hill 2-1920
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

FATTY ACIDS

	PRINCIPAL USES	CHEMICAL CHARACTERISTICS			
		Acid No.	Saponification No.	Iodine No.	Titre °C
Castor Acids (ricinoleic acid)	Cosmetics, shampoos, synthetic resins—esters	170-180	185-195	85-90	Below 5
Chinawood Fatty Acids, Split	Driers varnish compounds—esters	190-195	198-202	160	38-44
Cocoanut Fatty Acids, Distilled	Soaps, shaving creams, shampoos, dry cleaning soaps, rubber softeners, wetting agent for pigments, alkyd resins—esters	260-270	263-274	9-15	21-25
Cottonseed Fatty Acid, Distilled	Soaps	194-200	195-202	85-110	34-39
Cottonseed Fatty Acid, White, Distilled	Alkyd Resins—esters	198-202	200-204	90-110	36-39
Cottonseed Fatty Acid, High Titre, Distilled	Base for soap greases and soaps	200-208	205-210	70-85	43-48
Distoline, Distilled	Kier assistant, soaps, metal polishes, driers, insecticides, pulp and paper manufacturing	192-196	195-198	110-125	20-24
Fatty Acid No. 147	Hard and metallic soaps and grease bases, drawing and buffing compounds, rubber	194-200	196-202	10 Max.	60-64
Fatty Acid No. 149	Rubber compounding, pharmaceuticals, cosmetics, soaps, candles, recording material	202-206	204-208	8 Max.	56-61
Fatty Acid No. 150	Candles, recording material, rubber, metallic soaps, pharmaceuticals, cosmetics, emulsifying agents, buffing compounds, esters	201-205	203-207	3.5 Max.	59-63
Helioline-D, Distilled	Alkyd resins—dry cleaning soaps—esters	195-197	198-200	110-125	20-24
Isoline Fatty Acids, Distilled (9-11 octadecadienoic Acid-1)	Alkyd resins—non-yellowing; driers—esters	194-198	195-200	150-160	Below 5
Linseedine Fatty Acids, No. 1, Split	Alkyd resins	185-190	195-202	180-185	15-21
Linseedine Fatty Acids, "Supra", Distilled	Alkyd resins of light color, esters	195-200	196-202	180-185	17-22
Palm Fatty Acids, Double Distilled	Textile finishing compounds, soaps	198-203	200-206	38-55	44-48
Soya Fatty Acids, Distilled	Alkyd resins, soaps	194-202	195-204	115-130	23-29
Soya Fatty Acids, H.R. Distilled	Alkyd resins of light color, esters	196-200	198-202	130-140	22-26
Soya Fatty Acids, H.R. "Supra" Distilled	Alkyd resins of very light color—esters	198-203	199-205	130-140	22-25

Producers of Specification Fatty Acids

WOBURN CHEMICAL CORP. (N. J.)
KEARNY, N. J.
1200 HARRISON AVENUE • HARRISON POST OFFICE
Woburn Degreasing Co. Woburn, Mass.
Woburn Chemicals, Ltd. Toronto, Canada

Synthetic Drying Oils
Other Organic Chemicals

AHCO *Fatty Acid Esters*
DISTILLED GRADES

Superior BECAUSE OF

LOW VOLATILITY
LOW ACIDITY
MILD ODOR
IMPROVED HEAT STABILITY

Butyl "Cellosolve"* Stearate
Methyl "Cellosolve"* Oleate
Butyl Oleate
Butyl Laurate
Methyl "Cellosolve"* Myristate
Butyl Palmitate
Methyl "Cellosolve"* Stearate
Methyl "Cellosolve"* Palmitate
Butyl Myristate
Butyl Stearate
Tetrahydro Furfuryl Oleate

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ARNOLD, HOFFMAN & CO. INC.
Manufacturing Chemists
PROVIDENCE, R. I.
Established in 1815

Plants at Dighton, Mass., Charlotte, N. C., and Cincinnati, Ohio
NEW YORK • PHILADELPHIA • CHARLOTTE • CINCINNATI

* Trade mark of CCC Co.

FATTY ACID ESTERS (cont'd)

Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500
†Ninol Labs, 1719 S Clinton St, Chicago, Ill	Chesapeake 3-9625
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Schw Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
†Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O	Woodbine 1-4690
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552
†Woburn Chem Corp, Harrison, N J	Kearny 2-3300
Davidson Commission Co, Chicago, Ill	Hardy, M W, & Co, Inc, N Y
†Emulsol Corp, Chicago, Ill	Norco Prods Co, Phila, Pa
†Glidden Co, Chicago, Ill	

NOPCO FATTY DERIVATIVES

NOPALCOLS: *Fatty Esters*
NOPCOGENS: *Fatty Amides & Fatty Amines*

For Textile Treatment • Leather Treatment
Wetting Agents • Cosmetics • Plasticizers
Insecticides • Latex & Rubber Compounding
Essential Oil Dispersants
Pigment Dispersing Agents • Paper Softeners

NOPCO CHEMICAL CO.
Logan & Davis Sts., Harrison, N. J.

FATTY ACIDS, CASTOR OIL

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
†Baker Caster Oil Co, 119 Bway, N Y	Digby 9-0500
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O	Woodbine 1-4690
†Woburn Chem Corp, Harrison, N J	Kearny 2-3300
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383
Zimmerman, C L, Co, Cincinnati, O	

FELDSPAR (Felspar, Orthoclase)

General name for group of rock-forming minerals. K_2O, Al_2O_3·$6SiO_2$. Sp. gr. 2.55-2.75. Uses—mfr. opalescent glass, potteries, porcelains, chinaware, porcelain fluxes, electrical goods and insulators, fertilizer, enamels and glazes, tarred roofing papers, artificial teeth, poultry grit, scouring soap; source of potash; cement ingredient and surfacing concrete; bond for emery corundum and carborundum wheels; abrasive and cleansing agent.

Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y	Walker 5-3749
Klemm, Emil, Inc, Salt Lake City, Utah	Porter Warner Industries, Inc, Chattanooga, Tenn

FERRIC ACETATE (Basic Iron Acetate)

$FeOH(CH_3COOH)_2$. Brownish-red crystalline scales or powd. Sol. acids; insol. water. Uses—mfr. wood preservatives, hats; in weighting and dyeing silk; dyeing leather black; as mordant in dyeing and printing textiles; in printer's ink rollers; in medicine. Grades—tech C.P.

Ascend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
†City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200

FERRIC CHLORIDE (Iron Chloride, Iron Perchloride, Ferric Trichloride, Iron Trichloride, Iron Sesquichloride, Flores Martis)

a. $FeCl_3$. b. $FeCl_3 6H_2O$. Orange-yellow, deliq. cryst. a. Sp. gr. 2.804 (10.8°C.). M.P. 301°C. B.P. 307°C. b. M.P. 37°C. B.P. 280-285°C. Sol. alcohol, glycerol, ether; only slightly sol. water. Uses—mfr. iron salts, paint pigments, iron pharmaceuticals; chlorinating copper and silver ores; photo engraving; printing gravure and heliogravure; mordant in dyeing and printing textiles; catalyst in organic synthesis; condensing reagent in making intermediates, etc.; laboratory reagent; oxidising agent in making dyes; general disinfectant; deodorizing sewage; iron plating; in medicine. Grades—cryst.; anhydrous; tech.; C.P.; 30° Be soln; 37 Be soln; 40 Be soln; 46° Be soln; U.S.P.; U.S.P. soln (29% $FeCl_3$).

FERRIC CHLORIDE
Crystals & Solution

DOW

THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products
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See listing ad for other products

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg 5-2151
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Hunt, Philip A, Co, Palisades Park, N J	Leonia 4-4000

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SUBSIDIARY E I S BROWNING CO.
SAN FRANCISCO • LOS ANGELES

SELDNER & ENEQUIST, Inc.

ESTABLISHED 1902

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FERRIC CHLORIDE NEUTRAL

FERROUS SULFATE

86-112 Hausman Street, Brooklyn 22, N. Y.
EVergreen 8-7430

FERRIC CHLORIDE (cont'd)

†Innis, Speiden & Co. 117 Liberty St, N Y — Cortlandt 7-5803
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430

Hampden Color & Chem Co, Springfield, Mass — †Jordan Co, Chicago, Ill; Steidle Chem Co, Louisville, Ky

FERRIC CITRATE

$Fe(C_6H_5O_7)$. Brownish-red powder. About 17% Iron. **Uses: in medicine as source of iron in anemia therapy.**

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

FERRIC FLUORIDE (Iron Fluoride)

FeF_3. Green, solid crystalline. Sp. gr. 3.18. Sol. water, acids. Uses—mfr. alkali fluorides, ceramics. Grades—tech.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850

FERRIC HYDROXIDE (Ferric Hydrate, Iron Hydroxide, Hydrated Iron Oxide, Iron Sesquioxide Hydrated, Iron Hydrate, Ferric Sesquioxide Hydrated, Hydrous Iron Peroxide, "Crocus Martis," Hydrous Ferric Peroxide)

$Fe(OH)_3$. Brownish, amorp. powd. Sp. gr. 3.4-3.9. Loses water at 500°C. Sol. acids. Uses—mfr. paint pigments, pharmaceutical preparations; absorbent chemical processes; purifying water; for arsenic poisoning; compounding rubber. Grades—tech; C.P. Cont. kegs (100 lbs.); bottles (¼, 1 lb.). Tariff, 25%.

†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

FERRIC HYPOPHOSPHITE (Iron Hypophosphite)

$Fe(H_2PO_2)_3$. M.W. 250.95. White or grayish white powder. Sol. water. Uses: medicine.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

FERRIC LACTATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

FERRIC NITRATE (Iron Nitrate)

$Fe(NO_3)_3.9H_2O$. Grayish-white cryst. Sp. gr. 1.6835 (20°C.). M.P. 47.2°C. Decomposes on further heating. Sol. water. Uses—mordant in dyeing and printing textiles; for coloring brass; in medicine. Grades—tech. cryst.; C.P.; U.S.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

FERRIC OLEATE (Iron Oleate)

$Fe(C_{18}H_{33}O_2)_3$. Brownish-red, amorp. lumps. Sol. alcohol, ether, acids. Uses—paint and varnish drier; in medicine. Grades—tech.

†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

FERRIC OXALATE (Iron Oxalate)

$Fe_2(COO)_3$. Pale yellow, amorp., scale or powd., odorless. Decomposes on heating to 100°C. Sol. acids; insol. water. Uses—catalyst in making oxygen; silvertone photographic printing papers. Grades—tech.; C.P.

†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

FERRIC OXALATE (cont'd)

Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

FERRIC OXIDE—see also Iron Oxide

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Beardon Industries, Cincinnati, O — †Williams, C K, & Co, E St Louis, Ill

FERRIC PHOSPHATE (Iron Phosphate)

$FePO_4.2H_2O$. M.W. 186.89. Yellowish-white powd. Sol. mineral acids. Uses—medicine.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Le Bus, Philip J, Co, 250 Park Av, N Y — Murray Hill 9-0060
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsante Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

FERRIC STEARATE

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

FERRIC SULFATE (Iron Sulfate, Iron Tersulfate, Ferric Tersulfate, Persulfate of Iron, Iron Sesquisulfate)

a. $Fe_2(SO_4)_3$. b. $Fe_2(SO_4)_3.9H_2O$. Grayish-white, amorp. powd. Sp. gr. a. 3.097. b. 2-2.1. Decomposes on heating. Sol. slowly water. Uses—mfr. iron alum, paint pigments, Berlin blue; as laboratory reagent; etching on aluminum; mordant in dyeing and printing textiles; purifying drinking water; general disinfectant; in medicine. Grades—tech.; C.P.

Amer Firstaline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Opalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa — McKeesport 4-4278
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
†Tennessee Corp, P O Box 2205, Atlanta, Ga — Walnut 4210
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473

Bartlett Chems, Inc, New Orleans, La — Ulrich Chem Co, Indianapolis, Ind

FERRIC SULFIDE

†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

FERRIC THIOCYANATE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

FERRO CARBON TITANIUM

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

FERROCHROMIUM

Content: iron, carbon, chromium, of varying percents. Use: in mfg. of high-strength structural and engineering steels, tool and magnet steels, armor plate, stainless and heat-resistant steels, special purpose cast iron.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Enco Chem Corp, N Y — †Vanadium Corp of Amer, N Y

FERROMANGANESE

An alloy of 50% iron and 50% manganese. Sp. gr. 7.0. M.P. 1325°C. Uses—mfr. of tough steels.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490

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FERROMANGANESE (cont'd)

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333

†Anaconda Copper Mining Co, N Y — †New Jersey Zinc Sales Co, N Y
Enco Chem Corp, N Y

FERRO MOLYBDENUM (Alloy)

Composed principally of iron and molybdenum; marketed in two grades containing either a max. of 0.5 or 2% carbon. M.p. 2,965°F. Uses—increases tensile strength, hardenability, elongation, elastic limit, impact, fatigue, and high-temperature strength values of steel.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

†Climax Molybdenum Co, N Y — Metallurg, Inc, N Y
Enco Chem Corp, N Y

FERROPHOSPHORUS

Special alloy of iron and phosphorus, usually in 2 grades: 1. 17-19% phosphorus; 2. 23-25% phosphorus. Uses—to increase fluidity of iron and steel castings; in sheet steel to prevent sticking of sheets in final rolling; in wire to give stiffness and better surface for drawing.

†Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Oldbury Electro Chem Co, 19 Rector St, N Y — Digby 4-1668
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va — 2-0113
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Enco Chem Corp, N Y — Metallurg, Inc, N Y

FERROSILICON

Alloys of iron and silicon used in steel industry. Uses— to deoxidize steel for high grade forgings, rolled products, and castings; used in small doses in effervescing steel to clean up the bath. Grades—various, silicon content running from 14% to 94%. Available crushed or in lumps up to 50 lbs.; and in pigs up to 100 lbs.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333

†Blum, Paul, Co, Buffalo, N Y — †Vanadium Corp of Amer, N Y
Enco Chem Corp, N Y

FERRO TITANIUM

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

†Vanadium Corp of Amer, N Y

FERROTUNGSTEN

Content: iron, carbon, tungsten, in varying percents. Use: in mfg. of strong, hard alloys for use at high temperatures.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

†Climax Molybdenum Co, N Y — Enco Chem Corp, N Y

FERROVANADIUM

Content: 50-55% vanadium, carbon, silicon, iron. Use: in mfg. of special steels and alloys to increase yield, tensile, and impact strengths without sacrificing ductility; imparts a fine grain size to steel.

FERROVANADIUM (cont'd)

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

Enco Chem Corp, N Y — †Vanadium Corp of Amer, N Y

FERROUS AMMONIUM SULFATE (Mohr's Salt, Iron Ammonium Sulfate)

$(NH_4)_2Fe(SO_4)_2.6H_2O$. M.W. 392.13. Light green, solid crystalline. Sp. gr. 1.865. Sol. water. Uses—metallurgical reagent; in iron plating; in medicine. Grades—tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

FERROUS CARBONATE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700

FERROUS CHLORIDE (Iron Chloride, Iron Dichloride, Ferrous Protochloride, Iron Protochloride)

a. $FeCl_2$. b. $FeCl_2.4H_2O$. Greenish-white, deliq. cryst. or powd. Sp. gr. a. 2.988. b. 1.93. Sol. alcohol, water, acidulated with HCl. Uses—mfr. ferric chloride; mordant in dyeing and printing textiles; in metallurgy; in medicine. Grades—cryst. (60% $FeCl_2$); tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Dow Chem Co, Midland, Mich — Midland 500
†Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Jordan Co, Chicago, Ill

FERROUS GLUCONATE (Iron Gluconate)

$Fe[CH_2OH(CHOH)_4CO_2]_2.2H_2O$. M.W. 482.05. Brownish-yellow to light brown, odorless powder. Sol. water. Insol. alcohol. Uses—medicinal.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

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• FERRIC CHLORIDE
• FERRIC CITRATE
• FERRIC OXALATE
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FERROUS LACTATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

FERROUS SULFATE (Copperas, Iron Sulfate, Iron Vitriol, Green Copperas, Sal Chalybis, Green Vitriol)

$FeSO_4.7H_2O$. Greenish, crystalline, efflorescent lumps or powd. Sp. gr. 1.8987. M.P. 64°C. Decomposes on further heating. Sol. water. Uses—mfr. iron acetate and other iron salts, indigo dyestuffs, Prussian blue, Berlin blue, red oxide of iron and other iron pigments, boiler compounds, fertilizers; mordant in dyeing and printing textile; weed exterminator; in lithography; purifying water; disinfectant and deodorant of sewage; photographic reagent; general reducing agent in chemical processes; in ceramics; precipitating gold from solutions; aluminum etching; electrolytic iron; tanning and dyeing leather; in writing inks; laboratory reagent; mordant in dyeing wood and wood preservative; in process engraving; in medicine. Grades—tech.; cryst.; granulated; sugar sulfate; C.P.; U.S.P.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121

FERROUS SULFATE (cont'd)

Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8580
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Opalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa	McKeesport 4-4278
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
†Seidner & Enequist, Inc, 36 Hausman St, Bklyn, N Y	Evergreen 8-7430
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

Mine & Smelter Supply Co, Denver, Colo
Sergeant, E M, Pulp & Chem Co, Inc, N Y
†National Lead Co, N Y

FERROUS SULFIDE (Iron Sulfide, Iron Sulfuret, Pyrites, Iron Protosulfide, Ferrous Protosulfide, Iron Monosulfide)

FeS. Dark brown or black crystalline sticks or powd. Sp. gr. 4.75 to 5.40. M.P. 1197°C. Sol. acids. Uses—mfr. paint pigments, potteries, porcelains, storage batteries, sulfuric acid, liquid sulfur dioxide; laboratory reagent; generating hydrogen sulfide gas. Grades—tech. lumps and granulated.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220

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FILINGS, IRON & STEEL

Used in the chemical industry for reduction purposes and as the raw material for the production of industrial iron compounds.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

†Blum, Paul, Co, Buffalo, N Y
Scheel, Wm H, Inc, Bklyn, N Y

FILLERS, LINOLEUM

Various organic and inorganic inert substances incorporated in linoleum to give bulk toughness, etc., to the finished product, wood flour, cork, whiting being examples.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill	Superior 7-5637
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
†Composition Materials Co, Inc, 28 W 44 St, N Y	Bryant 9-3277
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
English China Clays Sales Corp, 551 5 Av, N Y	Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J	Elizabeth 2-1636
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Johns-Manville, 22 E 40 St, N Y	Lexington 2-7600
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa	Palmerton 3172
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670

Carroll, R E, Inc, Trenton, N J	†Penn Paint & Filler Co, Antes Fort, Pa
Chem Advance Corp, Phila, Pa	†Thompson, Weinman & Co, N Y
†Commercial Minerals Co, San Fran, Calif	†Williams, C K, & Co, E St Louis, Ill
†Keystone Filler & Mfg Co, Muncy, Pa	†Wood Flour, Inc, Winchester, N H

FILLERS, MINERAL

China clay, pyrophyllite talc, calcium carbonate and other materials used to give weight and bulk, to suspend emulsions, to load various products, to act as extenders. Uses—mfr. rubber, paper, ceramics, soap, textiles, paints.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill	Superior 7-5637
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
English China Clays Sales Corp, 551 5 Av, N Y	Murray Hill 2-2190
†English Mica Co, Sterling Bldg, Stamford, Conn	Stamford 4-9531
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J	Elizabeth 2-1636
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†Johns-Manville, 22 E 40 St, N Y	Lexington 2-7600
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa	Palmerton 3172
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†U S Gypsum Co, Industrial Div, 300 W Adams St, Chicago, Ill	State 2-6100
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†Johns-Manville, 22 E 40 St, N Y	Lexington 2-7600
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa	Palmerton 3172
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

†Columbia Quarry Co, St Louis, Mo	Landers-Segal Color Co, Bklyn, N Y
†Commercial Minerals Co, San Fran, Calif	†Penn Paint & Filler Co, Antes Fort, Pa
†Illinois Minerals Co, Cairo, Ill	†Williams, C K, & Co, E St Louis, Ill
†Keystone Filler & Mfg Co, Muncy, Pa	

FILLERS, PAPER

Except in high quality papers it is customary to add to the pulp a relatively cheap mineral loading material to provide bulk and also in many instances to help fill the pores. Most commonly used, and often called "loaders" are: china clay, clays, calcium sulfate. See Clays, Paper-Maker's; also Kaolin, China Clay, Calcium Sulfate, etc.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill	Superior 7-5637
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
†Composition Materials Co, Inc, 28 W 44 St, N Y	Bryant 9-3277
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
English China Clays Sales Corp, 551 5 Av, N Y	Murray Hill 2-2190
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J	Elizabeth 2-1636
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†Johns-Manville, 22 E 40 St, N Y	Lexington 2-7600
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa	Palmerton 3172
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†U S Gypsum Co, Industrial Div, 300 W Adams St, Chicago, Ill	State 2-6100
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

†Williams, C K, & Co, E St Louis, Ill
†Wood Flour, Inc, Winchester, N H

FILLERS, PLASTIC

The use of filling materials, which include cellulose, asbestos, fabric, paper, etc., is for the value given by the special properties of these materials, better molding qualities, greater toughness and strength, and, in the case of mineral fillers, an increased degree of water and heat resistance. Wood flour is one of the most common of fillers employed. Further, mineral filled molding materials also have a lower coefficient of heat expansion and lower shrinkage in the molding operation which in some instances is an advantage. See also pitches of various types.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
†Colorado Asbestos & Mining Co, Box 65, S Braintree, Mass	Braintree 2-3214
†Composition Materials Co, Inc, 28 W 44 St, N Y	Bryant 9-3277
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
English China Clays Sales Corp, 551 5 Av, N Y	Murray Hill 2-2190
†English Mica Co, Sterling Bldg, Stamford, Conn	Stamford 4-9531
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J	Elizabeth 2-1636
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†Johns-Manville, 22 E 40 St, N Y	Lexington 2-7600
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa	Palmerton 3172
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

Carroll, R E, Inc, Trenton, N J	Rimco Trading Corp, N Y
Kendall, J A, Akron, O	†Thompson, Weinman & Co, N Y
†Keystone Filler & Mfg Co, Muncy, Pa	†Williams, C K, & Co, E St Louis, Ill
†Penn Paint & Filler Co, Antes Fort, Pa	†Wood Flour, Inc, Winchester, N H

FILLERS, RUBBER

A wide variety of inert materials, including asbestos, barytes, calcium carbonate, diatomaceous earth, cotton flock, rayon flock, fossil flour, hydrated lime, flake graphite, magnesia, mica, pumice, silica, talc, whiting, wood flour, and rubber substitute or factice, etc., are employed to reduce costs, reduce gravity, and to aid in surface finishing.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill	Superior 7-5637
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
†Composition Materials Co, Inc, 28 W 44 St, N Y	Bryant 9-3277
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
English China Clays Sales Corp, 551 5 Av, N Y	Murray Hill 2-2190
†English Mica Co, Sterling Bldg, Stamford, Conn	Stamford 4-9531
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J	Elizabeth 2-1636
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†Johns-Manville, 22 E 40 St, N Y	Lexington 2-7600
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa	Palmerton 3172
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864

FILLERS, RUBBER (cont'd)

Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Aluminum Flake Co, Barberton, O
Berlow & Schlosser Co, Providence, R I
Carroll, R E, Inc, Trenton, N J
Chem Advance Corp, Phila, Pa
†Columbia Quarry Co, St Louis, Mo
†Commercial Minerals Co, San Fran, Calif
†Illinois Minerals Co, Cairo, Ill
Kendall, J A, Akron, O
†Keystone Filler & Mfg Co, Muncy, Pa
†Penn Paint & Filler Co, Antes Fort, Pa
Rimco Trading Corp, N Y
†Thompson, Weinman & Co, N Y
†Williams, C K, & Co, E St Louis, Ill
†Wood Flour, Inc, Winchester, N H

FILLERS, TEXTILE

Wide variety of products used in finishing operations to help fill the small spaces between woven or knitted fibres and to coat them so as to provide a "body" to the goods; commonly used are casein, talc, china clay, lithopone, etc.

†Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†English Mica Co, Sterling Bldg, Stamford, Conn — Stamford 4-9531
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
†Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670

Chem Advance Corp, Phila, Pa
†Williams, C K, & Co, E St Louis, Ill

FISH SCRAP AND MEAL (Fish Guano)

Source of nitrogenous fertiliser material. Definitions of the Association of Official Agricultural Chemists include the following:—Acidulated Fish Tankage, Acidulated Fish Scrap is the rendered product derived from fish and treated with sulfuric acid. Fish Tankage, Fish Scrap, Dry Ground Fish, Fish Meal Fertiliser Grade is the dried ground product derived from rendered or unrendered fish.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Chem Advance Corp, Phila, Pa
Huber, L W, Co, N Y
Jackle, Frank R, N Y
Jett, Joseph C, Norfolk, Va
Lundt & Co, N Y
Snow & Co, Los Angeles, Calif
Wessel-Duval Co, N Y
Wilson Brokerage, N Y
Woodward & Dickerson, Inc, Phila, Pa

FLAX SEED (Linseed, Linum)

Ripe seeds of Linum usitatissimum. Habitat—everywhere in cultivated state. Uses—source of linseed oil; in medicine. Grades—tech.; U.S.P.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996

FLINT (Flintstone)

Natural. Brownish-black gray crystalline or brown lumps. Sp. gr. 2.6. Sol. hydrofluoric acid; insol. water. Uses—mfr. flint glass, stoneware, agate mortars, porcelain, pottery, enamelware, road metal, concrete, refractory bricks; abrasive; polishing; as balls for ball mills; graining lithographic plates; chemical tower packing. Grades—commercial.

Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Mfrs Mining Co, Seattle, Wash
New England Quartz Co of N Y, N Y

FLOTATION AGENTS

Chemicals and specially compounded products used in ore treating to float the minerals in a froth permitting separation from the ore pulp. Oil and oily substances were the first flotation agents. With the introduction of selective flotation xylidine, alphanaphthalamine, thiocarbanilide, orthotoluidine, certain of the thioureas, potassium xanthate, sodium xanthate, certain of the amyl compounds, cresylic acid, pine oil, etc., were utilized.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
†Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
†Hercules Powder Co, 978 Market St, Wilmington, Del
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Ornite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

FLOTATION AGENTS

For greater productivity and more effective separation, investigate Armour's specification chemical reagents.

Armour's cationic reagents include the ARMEENS (high molecular weight aliphatic amines) and their water-soluble acetate salts (the ARMACS), as well as the ARQUADS (quaternary ammonium salts). Armour's anionic reagents are the NEO-FATS (special fractionally-distilled fatty acids). All are available in commercial quantities.

For technical recommendations and samples, write:

ARMOUR

ARMOUR *Chemical* DIVISION
1355 W. 31st Street, Chicago 9, Illinois

FLOTATION AGENTS (cont'd)

Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

FLUORENE

$C_{13}H_{10}$. M. W. 166. F. P. 110°C. White crystalline solid, soluble in aromatic solvents but not in water. Apart from the reactivity of the CH_2 group, fluorene undergoes the halogenation, sulfonation and nitration reactions characteristic of aromatic compounds. Intermediates from fluorene have uses in making resinous products, insecticides, dyestuffs, etc

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536

FLUORESCEIN (Resorcinolphthalein, Tetraoxyphthalophenonanhydride)

$C_{20}H_{12}O_5$. M.W. 332.30. Yellowish red powder. Slightly sol. water, ether. Sol. alcohol. Uses—medicine, Indicator in analyses.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Hilton-Davis Chem Co Div, 2235 Langdon Rd, Cincinnati, O — Elmhurst 1300
International Wax Refg Corp, 4415 3 Avenue, Brooklyn, N Y — South 8-1717
†Kolnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Pylam Prods Co, Inc, N Y

FLUORSPAR (Calcium Fluoride, Derbyshire Spar, Fluor, Fluorite, Florspar, Stilleous Sinter)

CaF_2. Varying color. Hardness 4. Sp. gr. 3-15-3-18. M.P. 1650°F. Sol. concentrated acids. Uses—mfr. hydrofluoric acid, fluorine fluorides, chinaware, enameled ware, stoneware, carbon electrodes; in preserving wood; etching glass; lessening consumption of fuel in cement kilns; as cement ingredient; general metallurgical flux in iron, brass, steel, antimony, lead, aluminum, gold, silver, copper, ferrosilicon and ferromanganese metallurgy; binder and adhesive in making abrasives, emery wheels, etc.; in medicine. Grades—powdered; lump; gravel; 80, 90, 95. 98% CaF_2.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749

†Industrial Minerals & Chem Co, Berkeley, Calif

FLUOROETHANOL

†Jorala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137

†Sapon Labs, Bklyn, N Y

FORMALDEHYDE (Formalin, Formic Aldehyde, Formol, Formalith, Oxymethylene, Methyl Aldehyde, Aldoria, Aldoform, Formitrol, Formolyptyol, Festoform, Preservaline, Methanal, Methylene Oxide)

HCOH. Colorless liq.; suffocating, pungent odor. Sp. gr. 1.075-1.081. B.P. (gas) —21°C. Miscible water, alcohol. Uses—mfr. intermediates, pharmaceuticals, formals, formic acid, urea, hydrosulfite derivatives, acetaldehyde, Paraformaldehyde, hexamethylenetetramine, triphenylamethane, anthracene and quinolin dyes, auramine, acridine, synthetic resins with phenol cresol and urea, explosives, synthetized gum and resin lacquers, rayon and cellulose esters, disinfectant soaps, dextrins, starches, embalming fluids, adhesives, beer; as deodorant, disinfectant, antiseptic; preservative in meats, milk,

FORMALDEHYDE (cont'd)

foods, rubber latex, sugar syrups, vinous liquors, biological specimens; gelatinizing agent for nitro-cotton; reducing agent in gold and silver recovery; hardening agent in making gelatin photographic plates and papers; developing agent with hydroquinone; insolubilizing agent in casein plastics; disinfectant in water and sanitation; ingredient of various pharmaceutical preparations; yeast stimulant; as fungicide, larvacide and in treating various plant diseases, such as stinking smut on wheat; in silvering mirrors; coagulating latex; waterproofing fabrics; dyeing and mordanting textiles; bleaching and weighting silk; stiffening and preserving grain in leather; tanning leather; waterproofing paper by means of gelatine and glue impregnation; waterproofing straw hats; fixing hair on furs; toning gelatine chloride papers; in ceramic, laundry, and fertilizer industries; therapeutic preparations from wood, tar, oils; insect sting remedies; in medicine. Grades—C.P.; U.S.P. 40% by volume solution formaldehyde gas in water.

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†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9351
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

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FORMALDEHYDE

PARAFORMALDEHYDE

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180 Madison Avenue, New York 16

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U.S.P. and Technical Grades.

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Equal to Heyden Formaldehyde in purity and uniformity. Powder, Flo Granules and Granules. Minimum assay 95%.

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FORMALDEHYDE (cont'd)

Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
★†Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655

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FORMALDEHYDE (cont'd)

Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
†Spencer Chem Co, 1004 Baltimore Av, Kansas City, Mo — Victor 2822
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Washline-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Baroda & Page, Inc, Kansas City, Mo
†Borden Co, N Y
Chem Sales Corp, Buffalo, N Y
Globe Chem Co, Cincinnati, O
Hampden Color & Chem Co, Springfield, Mass
Industrial Chem Co, Dayton, O
Lyon Chems, Inc, St Paul, Minn
McClellan, O C, & Co, Boston, Mass
Moser, George, & Son, Inc, Detroit, Mich
†Watson-Park Co, Boston, Mass
Wells Chem Co, Johnstown, N Y

FORMAMIDE

HCONH₂. M.W. 45.1. Heavy, colorless, odorless, hygroscopic liq. Decomposes at B.P. (19°C.); F.P. 2.55°C. Uses—solvent and substitute for glycerine; prod. of resins, formic acid and hydrogen cyanide.

†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

FORMANILIDE

C_6H_5NCHO. Colorless to yellow crystalline. Solid. Sp. gr. 1.112 (60°C.). M.P. 46°C. B.P. 271°C. Sol. water, ether. Uses—mfr. intermediates, organic chemicals; in medicine.

†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121

FOSSIL FLOUR—see also Diatomaceous Earth

For uses see Diatomaceous Earth. Grades—tech.; U.S.P.

Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749

FULLER'S EARTH

Uses—refining of petroleum products, edible oils, fats, greases, etc.; as general decolorizing, deodorizing and clarifying medium; in pigments for printing wall paper; detecting coloring matter in foods, cosmetics; substitute for talcum powd.; paint pigments; for domestic purposes; bleaching and cleansing cloth, scouring yarns and washing woolens; polishing medium; as filler for rubber, poultices. Grades—lump; powdered; English domestic; also various as to use.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Attapulgus Clay Co, 210 W Washington Sq, Phila, Pa — Walnut 2-5720
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Floridin Co, Warren, Pa — 329
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Griffiths, W F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

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Consult the largest producer and marketer of true adsorbent-type Fullers Earth about decolorization and refining of Mineral, Animal and Vegetable Oils; Catalysts and Carriers for organic and particularly hydrocarbon reactions; Animal Bedding; Dry Cleaner Powders; Fillers, etc. Technical and process assistance, samples and information are supplied without obligation.

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Highest quality Fullers Earth, produced by America's oldest manufacturer. Granular and fine particle sizes to specification. Adsorptive capacity greatly increased by Floridin high-pressure extrusion process. Effective for all adsorbent purposes, including decolorization, clarification, neutralization, desiccation, extraction, catalysis, diluent and other uses. Adsorption problems welcomed by competent technical staff. Samples available.

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FULLER'S EARTH (cont'd)

Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749

Bartlett Chems, Inc, New Orleans, La
Browning, E S, Co, San Fran, Calif
†Industrial Minerals & Chem Co, Berkeley, Calif
Pioneer Salt Co, Phila, Pa

FURAN

†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610

FURFURAL (Furfuraldehyde, Furol, Artificial Oil of Ants, Furfurol, Furfuranecarboxylic Aldehyde, Pyromucic Aldehyde, Furfuryl Aldehyde, Furfancarbonal)

C_4H_3O-CHO. M.W. 96.03. Colorless liq., turning to dark amber upon exposure. Characteristic penetrating odor. Sp. gr. (tech.) 1.159-1.161 (at 20°C.); (ref.) 1.160-1.161. B.P. 160-162°C. M.P. —38.5°C. Sol. alcohol, benzene. Solvent uses—purification of mineral oils, wood rosin, anthracene; synthetic resins, textile industry, shoe dyes, paint and varnish remover, varnish gums, lacquer formulation. Biological—fungicides, bactericides, preservatives, tree wound dressing, fly repellents. Aldehyde—resins, tanning (leather, glue, and cesein), manufacture of furan compounds, flotation agents. Cont. —drums (45, 90, 500 lbs.); bottles (½ lb.). Tariff, 25%.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Quaker Oats Co, Chicago, Ill

FUSTIC

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600

Meyer & Gregg, Phila, Pa

G SALT (Sodium Beta-Naphthol-6:8-Disulfonic Acid)

$C_{10}H_5OH(SO_3Na)_2$. White needles. Sol. water; insol. alcohol, ether. Uses—mfr. azo dyes, intermediates. Grades—tech.; paste; powd.

†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Gen Aniline Wks, N Y

GALL EXTRACT (Nutgall Extract)

Extracts made from nutgalls. Uses—mfr. black inks; mordant in dyeing and printing textiles; tanning leather. Grades—liq.

†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

GALLIUM (Metal)

Ga; at. wt. 69.72; at. no 31; valence 3; Discovered by Boisbaudron in 1895. Gray brittle, hard, lustrous, tough, slightly malleable metal; greenish blue reflection; silver white when melted and remains liquid for weeks. Sp. Gr. 5.9; M.P. 29.7°C. Boils above 1600°C; sol-in dil HCl or in NaOH with evolution of hydrogen; slowly attacked by hot dil. nitric acid. It is used instead of mercury in thermometers.

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa — Atlantic 1-4545
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490

GALLIUM (cont'd)

Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Stein, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265

†Anaconda Copper Mining Co, N Y — Mackay, A D, Inc, N Y
†Eagle Picher Co, Cincinnati, O

GAMBIER EXTRACT (Gambier, Pale Catechu, Terra Saponica)

Extracted from leaves of Ourouparia Gambir. Habitat—Java, Sumatra, Malacca. Uses—tanning leather; mordant in dyeing and printing textiles; in medicine. Grades—Singapore cubes; common cubes; No. 1, Prime Singapore cubes; plantation; Java; liq.

†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

Heap, F J, & Son, Inc, Boston, Mass

GASES LABORATORY

Industrial, rare, and medicinal gases supplied in small-size containers; also gases, such as hydrogen sulfide used in analytical work and supplied in industrial containers, eliminating use of laboratory generator.

Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600

Air Reduction Sales Co, N Y — †Amer Oxygen Service Corp, Harrison, N J

GASES RARE

A general term denoting the rare gases present in the atmosphere in addition to oxygen and nitrogen. See also: Argon, Krypton, Neon, etc.

Air Reduction Sales Co, N Y — †Linde Air Prods Co, N Y
†Amer Oxygen Service Corp, Harrison, N J

GASES REFRIGERATING

Various gases employed in the circulating systems of refrigerating machines, air-conditioning systems, etc. See also Refrigerants, Air-Conditioning Fluids.

†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Eston Chems Inc, 3100 E 26 St, Los Angeles, Calif — Angelus 9-8183
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700

Pure Carbonic Co, N Y

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Headquarters for
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75 rare and common gases
in industrial and laboratory cylinders

Acetylene	("Genetron 101")	Monomethylamine
Ammonia	Dimethylamine	Neon
Argon	Dimethyl Ether	Neopentane
Boron Trichloride	Ethane	Nickel Carbonyl
Boron Trifluoride	Ethyl Chloride	Nitric Oxide
Butadiene	Ethylene	Nitrogen
Butane	Ethylene Oxide	Nitrogen Dioxide
Butene 1	Ethylidene	Nitrous Oxide
Butene 2	Fluoride	Oxygen
Carbon Dioxide	("Genetron 100")	Phosgene
Carbon Monoxide	Helium	Propane
Chlorine	Hydrogen	Propylene
Chlorodifluoro-	Hydrogen Bromide	Sulfur Dioxide
methane	Hydrogen Chloride	Sulfur Hexa-
("Freon-22")	Hydrogen Fluoride	fluoride
Cyclopropane	Hydrogen Sulfide	Trichlorofluoro-
Dichlorodifluoro-	Isobutane	methane
methane	Isobutylene	("Freon-11")
("Freon-12")	Krypton	Trimethylamine
Dichlorofluoro-	Methane	Vinyl Bromide
methane	Methyl Bromide	Vinyl Chloride
("Freon-21")	Methyl Chloride	Vinyl Methyl
1,1,1, Difluoro-	Methyl Mercaptan	Ether
chloroethane	Monoethylamine	Xenon

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The MATHESON Co.
East Rutherford, N. J. Joliet, Ill.

GELATIN

Available in 2 grades, edible and technical. Edible gelatin is a purified protein obtained by hydrolysis from collagen-bearing tissue of food animals. Must comply with pure food laws of the U. S. and with laws established by certain of the states. Is a typical example of a reversible colloid of the emulsoid type. Chief characteristic is

GELATINES
Edible and Technical.
GLUES *All Types*
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Branches: Chicago • Boston

GELATIN (cont'd)

ability to form a jelly when dissolved in hot water and allowed to stand until cool. Has yellowish tint and is furnished in ground form, sheets or flakes. Is soluble in hot water, insoluble in alcohol, chloroform. Uses—foods, confectionery, ice cream, jellied meats and pharmaceuticals (USP). Cont.—bbls. (300 lbs.). Tariff, edible gelatine valued at less than 40c, 12½% ad valorem plus 2½c specific; 40c or over, 20% ad valorem, 7c specific.
Technical Grade A protein produced from bones, white connective tissue and skin of animals. Chief characteristic, ability to form jelly when dissolved in hot water and allowed to stand until cool. Soluble in water; insoluble alcohol, chloroform. Uses—photographic, lithographic, sizing, plastic compounds and textile and paper work.

†Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 3-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800

†Atlantic Gelatin Div, Woburn, Mass — Hewitt, C B, & Bros, Inc, N Y
†Burtonite Co, Nutley, N J — Hughes Gelatin Co, Detroit, Mich
Charles Prods Co, N Y — Laist, H R, Co, San Fran, Calif
†Con Chem Industries, Inc, San Fran, Calif — Lundt & Co, N Y
Gillies & Loughlin, Los Angeles, Calif — †Swift & Co, Chicago, Ill

GENTIAN

A bitter root. Habitat; Central and Southern Europe. Uses—medicinal, in manufacture of liqueurs.

†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

Howe, W Russell, N Y

GERANIOL

$C_{10}H_{18}O$. M.W. 154.20. Colorless to yellowish liq. with rose odor. B.P. 231°C. Insol. water, misc. alcohol, ether. Uses—in perfumery.

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
†Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Roure-Du Pont Inc, 366 Madison Av, N Y — Vanderbilt 6-5830
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

GERANYL ACETATE

$CH_3COOC_{10}H_{17}$. M.W. 196.22. Colorless liq. with rose odor that decomposes at 245°C. Slightly sol. water or alcohol, misc. with ether. Uses—in perfumery.

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110

GERANYL ACETATE (cont'd)

†Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Roure-Du Pont Inc, 366 Madison Av, N Y	Vanderbilt 6-5830
†Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

GERANYL BUTYRATE

$C_3H_7COOC_{10}H_{17}$. M.W. 224.33. Colorless liquid; rose-like odor. Insol. water; miscible with alcohol, ether. Uses: perfumery.

Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

GERANYL FORMATE

$HCOOC_{10}H_{17}$. M.W. 182.25. Colorless liquid; dry, rose-like odor. Readily hydrolyzed. Insol. water; miscible with alcohol, ether. Uses: perfumery.

†Aromatic Prods Inc, 15 E 30 St, N Y	Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

GERANYL PROPIONATE

$C_2H_5COOC_{10}H_{17}$. M.W. 210.3. Colorless liquid; soft rose-like odor. Insol. water; miscible with alcohol, ether. Uses: perfumery.

Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

GERMANIUM (Metal)

Ge. Grayish-white metal. Sp. gr. 5.46; m.p. approx. 900°C. Recovered from residues from zinc refining; found in two ores—argyrodite and germanite. Uses—medicinal purposes; as high-resistance element in radio.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†Amer Metal Co, Ltd, N Y	Mackay, A D, Inc, N Y
†Eagle Picher Co, Cincinnati, O	

GERMANIUM OXIDE

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000

Mackay, A D, Inc, N Y

GILSONITE (Uintahite, Uintaite)—see also Mineral Rubber

Black, brittle, lustrous mineral consisting of hydrocarbons. Sp. gr. 1.03-1.07. Sol. in carbon bisulfide, carbon tetrachloride, petroleum,

GILSONITE

SUPER SELECTS

Low Viscosity Type. M. P. 275° F. Extremely Uniform

SELECT FINES

Equal to Super Selects, except for size of pieces

GILSONITE SELECTS

Various Melting Points. 285-300-315° F.

REFINED GILSONITE SELECTS

Uniform M. P., Viscosity. 100% Clean

GILSONITE SECONDS

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SELECTED ORE—M.P. 270-280° F. Low Viscosity, Uniform Clean.

FINES—Obtained from Selected Ore. M.P. 270-280° F.

REFINED SELECTS—Various Melting Points. 275°-285°-300°-315° F.

GILSONITE SECONDS—Clean, Uniform Viscosity and Melting Point.

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GILSONITE (cont'd)

tar and coal solvents. Uses—bituminous coal, asphalt tile paints, varnishes, electrical insulating compounds. Grades—selects and standard.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
†Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Chaplain & Bibbo, 75 West St, N Y	Bowling Green 9-5636
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0564
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907
Haze, Harry, Inc, Chicago, Ill	Klemm, Emil, Inc, Salt Lake City, Utah
Howell, Edwin R, Detroit, Mich	Moser, George, & Son, Inc, Detroit, Mich
Jensen & McClelland, Chicago, Ill	

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GILSONITE

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Melting Points 275, 305 and 330 F.

Carload shipments from Provo, Utah,

L.C.L. shipments from Brooklyn Warehouse

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"Zophar Quality Goes Far"

ZOPHAR MILLS, Inc.

112-26th Street, Brooklyn 32, N.Y.

GLAND PRODUCTS

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Davidson Commission Co, Chicago, Ill	Laist, H R, Co, San Fran, Calif

GLUE, BONE

Animal glue made wholly from bones.

†Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000

ANIMAL GLUE

(BONE OR HIDE GLUE)

Pearls • Flake • Opaque • Ground

Bags or barrels • LCL or carload quantities

CONSOLIDATED CHEMICAL INDUSTRIES Inc.

ADDRESS INQUIRIES TO: 111 SUTTER STREET, SAN FRANCISCO 4, CALIF. OR 630 FIFTH AVENUE, NEW YORK 20, N. Y.

GLUE, BONE (cont'd)

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
†Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas — CA2371
†Darling & Co, 4204 S Ashland Av, Chicago, Ill — Yards 7-3000
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735

†Baugh Chem Co, Baltimore, Md
Browning, E B, Co, San Fran, Calif
†Burtonite Co, Nutley, N J
Charles Proda Co, N Y
†Con Chem Industries, Inc, San Fran, Calif
Hewitt, C B, & Bros, Inc, N Y
Lundt & Co, N Y
†Swift & Co, Chicago, Ill

GLUE, FISH

Obtained by heating with water, the heads, fins, and tails of fish. Weak jelling properties and is generally made into liquid glue.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910

Charles Proda Co, N Y

GLUE, HIDE

Glue produced from pieces of skin trimmed off the hide as unsuitable in size, shape, or texture for conversion into leather. For other glue listings by function see Specialties Section.

†Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
†Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas — CA2371
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill3-8350
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735

†Burtonite Co, Nutley, N J
Charles Proda Co, N Y
†Conrad-Kammerer Glue Co, New Albany, Indiana
†Con Chem Industries, Inc, San Fran, Calif
Haze, Harry, Inc, Chicago, Ill
Hewitt, C B, & Bros, Inc, N Y
Hughes Gelatin Co, Detroit, Mich
Kem Prods Co, Inc, Newark, N J
Lundt & Co, N Y
Madison Glue Corp, N Y
†Swift & Co, Chicago, Ill

GLUE, RESIN

Adhesives composed of synthetic resins (urea & phenol formaldehyde, etc.) which are supplied as dry powders, aqueous dispersions, alcohol/water solutions, for the bonding of wood veneers, by hot pressing or at room temperature.

†Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
★†Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
†National Casein Sales, 601-619 W 80 St, Chicago, Ill — Vincennes 6-7300
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

†Acme Resin Corp, Forest Park, Ill
Adler, A, & Son, Phila, Pa
†Borden Co, N Y
Hewitt, C B, & Bros, Inc, N Y
†Hughes Gelatin Co, Detroit, Mich

GLUE, VEGETABLE

Adhesives usually formulated by treating starch with alkali and used for a wide variety of domestic and industrial purposes. For other glue listings by function see Specialties Section.

Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
†Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
†National Casein Sales, 601-619 W 80 St, Chicago, Ill — Vincennes 6-7300
†Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219

†Burtonite Co, Nutley, N J
†Hughes Gelatin Co, Detroit, Mich
†Industrial Adhesive Co, Dallas, Tex

GLUTAMINE

Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

GLUTATHIONE

$C_{10}H_{17}O_6N_3S$. **M.W. 307.32. White crystals. M.P. 190-192°C, with decomposition.**

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

GLYCERINE (Glycerol, Alcohol Glycyl, Alcohol Propenyl, Propenyl Hydrate, Propanetriol, Glycerium)

$(CH_2OH)_2CHOH$. **Colorless to pale yellow, syrupy, odorless liq. Sp. gr. 1.2604. M.P. 17°C. B.P. 290°C. Miscible water, alcohol. Uses—mfr. nitroglycerine and low freezing dynamite compositions, printing rollers, cosmetics, perfume, food and pharmaceutical preparations, rubber stamps, rubber stamp and copying inks, fancy toilet and liq. soaps, confectionery, fermented drinks, shoe blackings, hats, waterproofed paper, parchment, marbled and coated papers; glycerophosphates, photographic emulsions, rubber substitutes; plastics; as general solvent; solvent in dyeing and printing textiles; size in making felt and treating fabrics; preservative and sweetening foods;**

GLYCERINE

Brokers — SST — Exclusively

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20 VESEY ST., NEW YORK 7, N. Y. · WO. 4-0120

GLYCERINE (cont'd)

anti-freeze agent, in automobile radiators; special lubricant; softening agent in artist's colors; sugar substitutes; in flavoring and preserving tobacco; preserving cork stoppers from molding; increasing viscosity of liquids; finishing leather; extracting perfumes from flowers; clay modeling; in medicine. Grades—C.P. (U.S.P.); dynamite; saponification; soap lye; crude yellow; white 28° and 30° Bé.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstaline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
†Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Conway Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Darling & Co, 4204 S Ashland Av, Chicago, Ill — Yards 7-3000
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Gross, A, & Co, 295 Madison Av, N Y — Murray Hill 3-8250
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
Ute, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
†Woburn Chem Corp, Harrison, N J — Kearny 2-3300

Ackerman, J C, Co, Pittsburgh, Pa
†Celina Stearic Acid Co, Celina, O
Commercial Chems, Inc, Buffalo, N Y
Eastern Color & Chem Co, N Y
Elk, B R, Co, Inc, Garfield, N J
Frey & Co, N Y
Gitlin, Charles, & Co, Inc, N Y
Grund, Henry L, Inc, Cleveland, O
Hardy, M W, & Co, Inc, N Y
Haze, Harry, Inc, Chicago, Ill
Martin Hoyt & Milne, San Fran, Calif
Minnesota Chem Co, St Paul, Minn
Neal, L W, Phila, Pa
Poole, J R, Co, Boston, Mass
Schellings, C J, & Co, Inc, N Y
†Shields, Thomas J, Co, N Y
Smead & Small, Inc, Cleveland, O
Spiegel & Peiffer, N Y
Stark, J W, Co, Detroit, Mich
†Swift & Co, Chicago, Ill
Ulrich Chem Co, Indianapolis, Ind

GLYCEROL CHLOROHYDRINS

†Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071
†Jorala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400

GLYCEROL 1, 3-DICHLOROHYDRIN

$CH_2Cl.CHOH.CH_2Cl$. **Mol. Wt. 128.99. B.P. 175°C. Sp. gr. 20/4°C. 1.365. Refr. Index 20°C. 1.484. Flash-Point ASTM o.c.°F. 200. Sol. in Water Wt. % at 20.°C. 15.3. Highly reactive due to presence of an adjacent hydroxyl group and chlorine atom. Suggested uses—synthesis of plasticizers, solvents, resins, and pharmaceutical and industrial chemicals.**

GLYCEROL CHLOROHYDRINS

Epichlorohydrin — Glycerol Dichlorohydrin



SHELL CHEMICAL CORPORATION

500 Fifth Avenue, New York 18

100 Bush Street, San Francisco 6

Los Angeles • Houston • St. Louis • Chicago • Cleveland • Boston • Detroit • Newark

GLYCEROL 1, 3-DICHLOROHYDRIN (cont'd)

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400

GLYCEROL MANNITAN LAURATE

Mixed polyalcohol fatty acid ester. Red brown oily liquid. Dispersible or insol. water and most solvents. Uses: wetting agent in yeast and other foods; spreading agent for use with rotenone or other toxicants in insecticides.

†Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241

GLYCEROL a-MONOCHLOROHYDRIN

$CH_2OH.CHOH.CH_2Cl$. Mol. Wt. 110.54. B.P. 213°C. Sp. gr. 20/4°C. 1.320. Refr. Index 20°C. 1.481. Flash-Point ASTAM o.c.°F. 280. Sol. in Water Wt. % at 20°C. ∞. Highly reactive due to presence of an adjacent hydroxyl group and chlorine atom. Suggested uses—synthesis of plasticizers, solvents, resins, and pharmaceutical and industrial chemicals.

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

GLYCEROL SORBITAN LAURATE

Mixed polyalcohol fatty acid esters. Amber oily liquid. Dispersible or insol. water and most solvents. Uses: wetting agent in various food products.

†Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241

a-GLYCERYL-o-CRESYL ETHER

$C_9H_{12}O_3$. White powder or needles. Sol. water, alcohols, ether. Uses: medicine, muscle relaxant.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
†Sumner Chem Co, Inc, 52 Wall St, N Y — Digby 4-3880

GLYCERYL ESTERS

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
†Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
†Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Hardesty, W C, Co, Inc, 41 E 42 St, N Y — Murray Hill 2-1920
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Carlisle Chem Wks, Reading, O — Reeson, R F, Co, N Y
†Emulsol Corp, Chicago, Ill — Robie, Milton F, S Braintree, Mass

GLYCERYL MONOCOCATE

†Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Emulsol Corp, Chicago, Ill

GLYCERYL MONO LAURATE

Semi-solid, cream-colored paste. Sp. gr. 0.98. Free fatty acid, less than 2.5%. Dispersible in water. 5% dispersion in water has a pH of 8.5-8.7. Soluble in alcohol and most organic solvents and oils.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
†Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
†Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610

GLYCERYL MONO LAURATE (cont'd)

Hardesty, W C, Co, Inc, 41 E 42 St, N Y — Murray Hill 2-1920
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Carlisle Chem Wks, Reading, O — †Emulsol Corp, Chicago, Ill

GLYCERYL MONO OLEATE

Yellow oil. Sp. gr. 0.94. Free fatty acid, less than 2%. Dispersible in water 5% dispersion in water has a pH of 8.3-8.5. Titre, 0°C. Soluble in alcohol and most organic solvents and oils.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
†Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
†Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Hardesty, W C, Co, Inc, 41 E 42 St, N Y — Murray Hill 2-1920
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Carlisle Chem Wks, Reading, O — †Emulsol Corp, Chicago, Ill

GLYCERYL MONORICINOLEATE

$C_{17}H_{32}COOC_3H_5(OH)_2$. Sp. gr. 1.019 (25°/25°C.). Uses—mfr. cosmetics, soluble oils for textile, paper and leather industries; mfr. automobiles, furniture and metal polishes; lacquer plasticizer.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
†Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Carlisle Chem Wks, Reading, O — †Kem Prods Co, Inc, Newark, N J

GLYCERYL MONOSTEARATE

$C_{17}H_{35}COOCH_2CHOHCH_2OH$. Sp. gr. 0.908 (30°/20°C.). Uses—mfr. cosmetics, as thickening and dispersing agent for textiles, paper, leather; emulsifying agent for polishes.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
†Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
†Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Hardesty, W C, Co, Inc, 41 E 42 St, N Y — Murray Hill 2-1920
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
†Carlisle Chem Wks, Reading, O — †Emulsol Corp, Chicago, Ill

GLYCERYL MONOSTEARATE

Aldo 33 and Aldo 28 Brands Available in Fine Bead Form

Special Qualities for the Food Industries

Send for "New Products for the Food Industry"

GLYCO PRODUCTS COMPANY, INC.

26 COURT ST., BROOKLYN 2, N.Y.

GLYCERYL PHTHALATE

$C_{11}H_{12}O_4$. Light straw colored resin. M.P. 67°C. Sol. abs. alcohol, al. sol. hydrocarbons; insol. water. Uses—synthetic resin for varnishes, lacquers, etc.

†Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

GLYCERYL RICINOLEATE

Light amber, self-emulsifying oil, forming milky emulsions with cold water. Miscible with alcohols, hydrocarbons, solvents, and oils.

GLYCERYL RICINOLEATE (cont'd)

Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
†Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
†Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J	Bergen 4-1300
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552

GLYCERYL SALICYLATE

†Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J	Bergen 4-1300

GLYCERYL TRIOLEATE

$(C_{17}H_{33}COO)_3C_3H_5$. M.W. 885.4. Yellow oil. Sol. oils and most organic solvents. Uses: textile lubricants; in mfg. of textile and leather specialties.

Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Hardesty, W C, Co, Inc, 41 E 42 St, N Y	Murray Hill 2-1920
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800

GLYCERYL TRISTEARATE

Synthetic wax. Uses—as solid lubricant; in cosmetics, polishes, paper and textile coatings.

Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Hardesty, W C, Co, Inc, 41 E 42 St, N Y	Murray Hill 2-1920
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
Nurda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878

GLYCINE—see Acid, Aminoacetic

GLYCOL DIACETATE

$C_6H_{10}O_4$. M.W. 146.14. Water-white liquid. B.P. 186°C. Uses—Solvent for cellulose esters and ethers, for printing inks and lacquers, and for resins; plasticiser; perfume fixative; prevents blushing in airplane dopes; imparts flexibility to cellulose ether films.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000

GLYCOL DIFORMATE (Ethylene Glycol Diformate, Ethylene Formate)

$HCOOCH_2CH_2OOCH$. M.W. 118.09. As supplied commercially is a mild-odored, water-white liquid, soluble in water, alcohol, and ether. This ester boils at 177°C. under 760 mm. pressure and has a specific gravity of 1.2240 at 20/20°C. Like glycol diacetate, it is a solvent for cellulose acetate, nitrocellulose, and cellulose ethers. In the presence of water, glycol diformate will hydrolyze slowly with the liberation of formic acid. Hence, it can be employed in reactions where it is desired to develop a gradual source of this acid. It shows promise as an ingredient of embalming fluids.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000

GLYCOL OLEATE (Diglycol Oleate)

$C_{17}H_{33}(COOC_2H_4)_2O$. Brown colored, oily liq. Sol. alcohol, esters, oils, hydrocarbon solvents. Dispersible in water. Uses—emulsifying agent for polishes, dry cleaning soap; emulsifying agent for insecticidal and agricultural sprays.

Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
†Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
†Ninol Labs, 1719 S Clinton St, Chicago, Ill	Chesapeake 3-9625
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552

GLYCOL PHTHALATE

$C_{18}H_{16}O_6$. Brown liq. Sol. abs. alcohol, sl. sol. hydrocarbons; insol. water. Uses—lacquer plasticizers; fixative and bodying agent for essential oils.

†Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill	Bishop 2-1374
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552

GLYCOL RICINOLEATE

Light amber, self-emulsifying oil which forms milky emulsions with cold water. Readily miscible with alcohols, hydrocarbons, solvents, and oils.

Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
†Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552

GLYCOLS ETHYLENE AND PROPYLENE MIXED

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700
Eastern Color & Chem Co, N Y	

GLYOXAL

$(CHO)_2$. M.W. 58. Greenish-yellow, water-soluble liquid. Uses: papermaking, dyestuffs; modifying agent.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000

GOLD CHLORIDE (Auric Chloride)

a. $AuCl_3HCl.4H_2O$. b. $AuCl_3.2H_2O$ (gold trichloride). Cryst. Sp. gr. 3.9. M.P. sublimes. B.P. 150°C. Sol. water, alcohol, ether. Uses—mfr. ruby glass, ink, Cassius purple; painting on glass and porcelain; in gold plating; toning photographic prints; gilding mirrors; in medicine. Grades—tech.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill	Randolph 6-0232
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818
Baker & Co, Inc, Newark, N J	Hagstoz, T B, & Son, Phila, Pa
†Bishop, J, & Co Platinum Wks,	†Jordan Co, Chicago, Ill

GOLD CYANIDE (Auric Cyanide)

$Au(CN)_3$. Yellowish-red crystalline. Sublimes on heating. B.P. 150°C. Sol. hot water, alcohol, ether. Uses—decorating porcelains; gold and alloy gold plating; medicine. Grades—tech.

Goldschmidt Chem Corp, 153 Waverly Pl, N Y	Chelsea 3-4792
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Baker & Co, Inc, Newark, N J	†Bishop, J, & Co Platinum Wks,

GOLD POTASSIUM CHLORIDE (Potassium Aurichloride, Potassium Chloraurate)

$AuCl_3.KCl.2H_2O$. Yellow cryst. Sol. water, alcohol, ether. Uses—painting on porcelain and glass; coloring glass; toning photographic prints; in medicine. Grades—tech.

Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill	Randolph 6-0232
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-4300

GOLD POWDER

Au. Yellow metal. Sp. gr. 19.2. M.P. 1063°C. B.P. 2530°C. Sol. aqua regia; insol. acids. Uses—mfr. anodes, alloys, gold salts; in gilding; solders; decorating; gold fulminate; as chemical analyst. Grades—tech.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Doggett, Stanley, Inc, 75 Varick St, N Y	Walker 5-1051
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill	Randolph 6-0232
†Handy & Harman, N Y	

GOLD SODIUM CHLORIDE (Gold Salts, Sodium Aurodichloride)

Mixture $AuCl_3$ and NaCl. Orange-yellow, deliq. crystalline powd. Sol. water, alcohol. Uses—decorating porcelains, potteries; staining glass; toning photographic prints; in medicine. Grades—tech.

Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill	Randolph 6-0232
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
†Bishop, J, & Co Platinum Wks,	

GRAPHITE (Plumbago, Black Lead, Mineral Carbon)

Crystallized carbon with traces of SiO_2, Fe, etc. Steel gray to black. Solid. Natural. Sp. gr. 2.55 (18°C.). Sublimes at 3600°C. Insol. all common solvents. Uses—mfr. lead pencils, crucibles, gunpowder, lubricating compositions, anodes for electric batteries, parts of electrical machinery, motor brushes, arc light carbons, electrodes for electrochemical and electrometallurgical apparatus, boiler compounds, polishes for stoves, shoes, etc., anti-corrosive varnishes, metallurgical retorts, foundry linings and molds, fertilizer compositions; in repairing boilers and stoves; art bronze coloring; electroplating porous articles; as paint pigment. Grades—crude; powdered; flake; domestic; East Indian; Madagascar; Ceylon.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Hewe & French, 99 Broad St, Boston, Mass	Hancock 5910
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
†Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Wah Chang Corp, 233 Bway, N Y	Cortlandt 7-0887
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
†Asbury Graphite Mills, Inc, Asbury, N J	†Shields, Thomas J, Co, N Y
Furnas, James H, Co, Chicago, Ill	†Superior Flake Graphite Co, Chicago, Ill
Jensen & McClelland, Chicago, Ill	

GRAPHITE COLLOIDAL

Graphite in the colloidal state. Usually marketed in the following mediums—oil, water, castor oil, and glycerine. Uses—lubricant for high temperature work.

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Kem Prods Co, Inc, Newark, N J	†Superior Flake Graphite Co, Chicago, Ill

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

GREASE, ANIMAL

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Marcus-Ruth-Jerome Co, 327 S LaSalle St, Chicago, Ill	Harrison 7-1760
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
†Conrad-Kammerer Glue Co, New Albany, Indiana	Frey & Co, N Y
†Con Chem Industries, Inc, San Fran, Calif	Pfau's, George, Sons Co, Jeffersonville, Ind
Davidson Commission Co, Chicago, Ill	Spiegel & Peiffer, N Y
†Detroit Rendering Co, Detroit, Mich	Wilson Brokerage, N Y

GROUND GLASS (Powdered Glass)

Sp. gr. 2.4-2.8. Uses—as abrasive:

Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y	Walker 5-3749

GUAIACOL CARBONATE (Duotal)

$CH_3O.C_6H_4O)_2CO$. M.W. 274.26. Small colorless crystals or white crystalline powder. M.P. 85-86°C. Insol. water. Sol. chloroform, ether, less soluble in alcohol.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120

GUAIACOL LIQUID (Methylprocatechin, Methylhydroxybenzine)

$C_6H_4OCH_3OH$. Faint yellow oily liq., with aromatic odor. Sp. gr. 1.1893. B.P. 205°C.; M.P. 27.9°C. Darkens on exposing to light. Sol. partially water, sol. alcohol, ether. Grades—tech. U.S.P.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Fallek Products Co Inc, 165 Bway, N Y	Barclay 7-7939
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Reepublic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

GUAIACOL SALICYLATE

†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030

GUANIDINE CARBONATE

$(H_2NCNHNH_3)_2.H_2CO_3$. M.W. 180.3. White granules. 100% through 40 mesh. Decomposes at 197-199° C. without melting. Sol water and moderately sol. in organic alcohols. Uses—to replace metallic soaps, where the latter tend to separate in solution or to cause cloudiness; as a base, having about the same alkalinity as that of sodium carbonate; mfr. cosmetics, dry cleaning soaps; intermediate in mfr. other guanidine compounds and in preparation of special coatings and resins.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600

GUANIDINE HYDROCHLORIDE

$CH_5N_3.HCl$ M.W. 95.53. White crystalline powder.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†N Y Color & Chem Co, 374 Main St, Belleville, N J	Belleville 2-1140
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

GUANIDINE NITRATE

$(H_2NCNHNH_3).NO_3$. M.W. 121.05. White granules, 100% through 40 mesh, M.P. 206-212°C. Moderately sol. in water and organic alcohols. Uses—mfr. explosives and bactericides.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100

GUANINE (2-Amino 6-Oxypurine)

$C_5H_5N_5O$. M.W. 151.13. White. Insol. organic solvents, water. Sol. alkalies but not ammonia; sol. mineral acids. Uses: in pharmacology, nutrition, plant physiology; as an inhibitor of liver poisoning.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Nearl Corp, 153 Waverly Pl, N Y	Chelsea 2-3680
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

GUANO

Dried excrement of sea fowl. Natural Peru and Chile. Uses—as fertilizer. Grades—tech.

Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113
Wessel-Duval Co, N Y	

GUM ACCROIDES (Yacca Gum, Black Soy Gum, Xanthorrhea Resin, Red Gum, Yellow Gum, Gumtree)

Resin obtained from species of Xanthorrhea trees. Habitat—Australia. Sol. hot alcohol. Uses—mfr. varnishes, lacquers, sealing wax, finishing compositions, spirit lacquers for coating metals, perfumery, wood stains; substitute for rosin; sizing paper; enriching gas. Grades—tech.

GUM ACCROIDES (cont'd)

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Colony Import & Export Corp, 11 E 44 St, N Y	Murray Hill 2-3160
Innes, O G, Corp, 82 Wall St, N Y	Hanover 2-7450
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
†Meer Corp, 318 W 46 St, N Y	Judson 6-0900
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa	Michigan 4-3460
U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
France, Campbell & Darling, Inc, Kenilworth, N J	Scheel, Wm H, Inc, Bklyn, N Y

GUM ALGINATES

Salts of algin. White to dark brown solids having marked hydrophilic colloidal properties. Sol. water; insol. organic solvents. For further information see Algin.

†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†Kelco Co, 31 Nassau St, N Y	Beekman 3-7567
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

GUM AMBER

Fossilized bituminous resin. Occurs as hard, transparent, brittle masses of clear yellow to brown color. Uses: precious stone; as a dielectric mat. Composition 28% succino-abietic acid, 70% esters of succinic acid and succino-resinol.

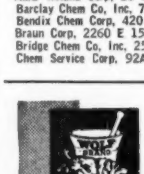
†Allison, Wm M, & Co, 162 Water St, N Y	Whitehall 3-7421
Dallal, D S, & Co, 261 5 Av, N Y	Murray Hill 3-8646
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

ARABIC
Gums KARAYA
TRAGACANTH
ALL TYPES, CRUDE AND POWDERED
LOCUST BEAN GUM (Carob Flour)
ALL GRADES
T. M. DUCHÉ & SONS, INC.
ESTABLISHED 1857
117 Hudson St., New York 13, N. Y.
Branches: Chicago • Boston

GUM ARABIC (Acacia Gum, Senegal Gum)

Yellow or white fine powd. Sp. gr. 1.355. Sol. water. Uses: mfr. shoe and meta polishes, water colors, paints, varnishes, linoleum, oilcloth, matches, pyrotechnics, mucilage, glues, cements, adhesive pastes, confectionery, sweetmeats, baked products, potteries, porcelain, paper size, giving lustre to crepe silks; body and drier in writing and lithographic inks; in stiffening textile fibers; printing textiles; in process engraving; in medicine. Grades—U.S.P.; tech.; numerous U.S.P. grades of whole, ground, and powdered.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
†Allison, Wm M, & Co, 162 Water St, N Y	Whitehall 3-7421
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970



GUMS
ARABIC—TRAGACANTH—KARAYA (Indian Gum)
All grades—crude, cracked or powdered
A Superior Printing Thickener
VAT GUMS
LOCUST BEAN GUM
IRISH MOSS POWDER
IRISH MOSS EXTRACT
SCREEN PRINT GUM
JACQUES WOLF & CO.
Manufacturing Chemists & Importers
Passaic, N.J. • Carlstadt, N.J. • Los Angeles, Calif.

GUM ARABIC (cont'd)

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
Colony Import & Export Corp, 11 E 44 St, N Y	Murray Hill 2-3160
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Dallal, D S, & Co, 261 5 Av, N Y	Murray Hill 3-8646
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Dodwell & Co, Ltd, 120 Wall St, N Y	Hanover 2-1580
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y	Walker 5-5530
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y	Hanover 2-3750
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Hunt, Philip A, Co, Palisades Park, N J	Leonia 4-4000
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
McAdam, T F, Inc, 125 Broad St, N Y	Digby 9-3525
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Meer Corp, 318 W 46 St, N Y	Judson 6-0900
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Parker, Herbert H, 2 Bway, N Y	Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Stein, Hall & Co, Inc, 285 Madison Av, N Y	Murray Hill 9-0800
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

†Arabol Mfg Co, N Y
Busschaert, P S, Inc, N Y
Elk, B R, Co, Inc, Garfield, N J
Grove, M O, & Co, San Fran, Calif
†Hathaway Allied Prods, Los Angeles, Calif
Heyman, N H, Inc, N Y
Houghton, Philip A, Inc, Boston, Mass
Howe, W Russell, N Y
Interboro Chem Co, N Y
Internatio-Rotterdam, Inc, N Y
Lyon, Julian W, N Y
Smith Crude Drug & Spice Corp, N Y

GUM ASPHALTUM

Brown-black amorp. Natural. Uses—mfr. varnishes, paints, lacquers, enamels, roof cements, electrical insulations, electrical insulators, cements, duo-tone and transfer inks, asphaltic and roofing papers; as mineral rubber and rubber filler; general waterproofing agent; in coating water and gas pipes; lining water tanks and plastics with asbestos; process engraving and lithography; cement mixtures; making tanks water-tight. Grades—various as to source, etc. (Egyptian, Stearine Pitch, Varnish Maker's Black, Compo Black, etc.).

Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907
†Mitchell Rand Mfg Co, N Y	Scheel, Wm H, Inc, Bklyn, N Y

GUM BATU

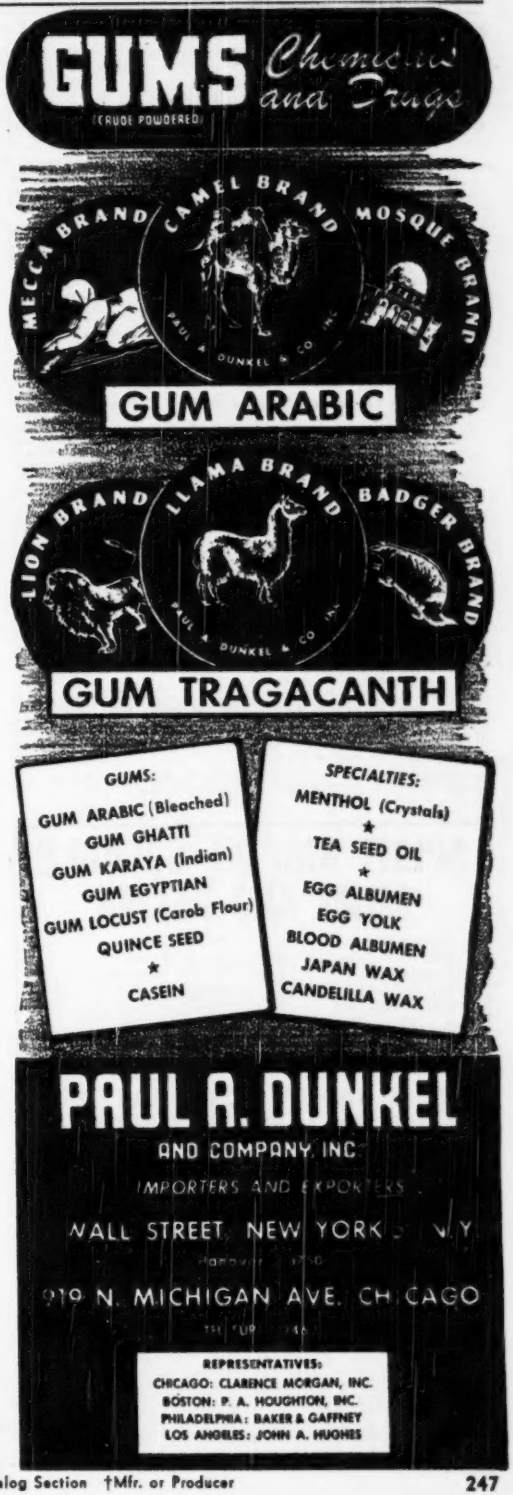
A natural product, bastard damar gum, from Singapore. Uses—mfr. varnish, paint, linoleum. Grades—scrapped; unscrapped; nubs and chips.

†Allison, Wm M, & Co, 162 Water St, N Y	Whitehall 3-7421
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
Grace, W R, & Co, 7 Hanover Sq, N Y	Whitehall 4-1200
Innes, O G, Corp, 82 Wall St, N Y	Hanover 2-7450
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
†Meer Corp, 318 W 46 St, N Y	Judson 6-0900
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa	Michigan 4-3460
U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
Wah Chang Corp, 233 Bway, N Y	Cortlandt 7-0887
Scheel, Wm H, Inc, Bklyn, N Y	Thurston & Braidich, N Y

GUM BENZOIN (Gum Benjamin, Styrax Benzoin, Benzoin Resin)

Balsamic resin from Styrax benzoin. Habitat—Java, Sumatra, Siam. Sp. gr. 1.24. Acid No. Siam 120-170, Sumatra 95-190. Saponification No. Siam 170-240. Sumatra 155-270. M.P. 77-100°C. Sol. alcohol, carbon disulfide. Uses—mfr. skin soaps, cosmetics, perfume and toilet preparations, incense, cinnamic acid, polishes, coating preparations, varnishes; in fumigating pastilles; in medicine. Grades—U.S.P.; tech.; Sumatra; Siam.

†Allison, Wm M, & Co, 162 Water St, N Y	Whitehall 3-7421
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0-251
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Meer Corp, 318 W 46 St, N Y	Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970



GUM BENZOIN (cont'd)

Uhe, George, Co, Inc, 75 E Av, N Y — Watkins 9-0870
Wah Chang Corp, 233 Bway, N Y — Cortlandt 7-0887
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

Fidelity Trading Co, Inc, San Fran, Calif — Lyon, Julian W, N Y

GUM CONGO (Congo Copal, Copal Resin, Cowrie Kaurie, Anime)

Yellow to yellowish brown, odorless, amorp. Sp. gr. 1.059-1,080. Acid No. 132. Saponification No. 66-175. Sol. benzene, oil of turpentine, chloroform, ether. Uses—mfr. varnishes, lacquers, cements; in coating textiles under fabric of oil-cloth and linoleum; as amber substitute. Grades—various as to color, size of pieces, etc.

Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Colony Import & Export Corp, 11 E 44 St, N Y — Murray Hill 2-3160
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

Busschaert, P S, Inc, N Y — McNulty, Joseph A, N Y
France, Campbell & Darling, Inc, Kenilworth, N J — Scheel, Wm H, Inc, Bklyn, N Y
Thurston & Braidich, N Y

GUM COPAL (Resin Copal, Anime, Kaurie)

Derived from fossil found in Zanzibar, or exeretion various species Trachylobium. Two varieties hard and soft copals. Habitat—Zanzibar, Australia, Philippines, South America, West Indies. Yellowish to brownish lumps. Hard copals are almost insol. Both grades after fusing are sol. oil of turpentine, linseed oil. Uses—mfr. linoleum, oil-cloth; as substitute for amber; in cements and varnishes. Grades—tech.

†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Colony Import & Export Corp, 11 E 44 St, N Y — Murray Hill 2-3160
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Wah Chang Corp, 233 Bway, N Y — Cortlandt 7-0887

Busschaert, P S, Inc, N Y — Scheel, Wm H, Inc, Bklyn, N Y
Fidelity Trading Co, Inc, San Fran, Calif — Thurston & Braidich, N Y
Internatio-Rotterdam, Inc, N Y — Wiswell & Co, Belmont, Mass

SPIRIT AND OIL SOLUBLE GUMS AND RESINS

Batavia Damar
Singapore Damar
Siam Damar
Pale East India
Black East India
Batu East India
Pontianak
Manila Copal
Congo Copal
Yacca (Accroides)
Sandarac
Mastic
Elemi
Synthetic Resins

Processed Natural Resins
Fused Congo Copal — Dewaxed Damar

O. G. INNES CORPORATION
82 Wall St., New York 5, N. Y.
Telephone: HAnover 2-7450

GUM COUMARONE—INDENE (Coumarone Resin)

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
†Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Zimmerman, C L, Co, Cincinnati, O

GUM DAMAR (Resin Damar, Dammar)

Yellowish-white, amorp. masses. Sp. gr. 1.04-1.12. M.P. 120°C. Sol. alcohol, ether, chloroform, carbon disulfide, oil of turpentine. Uses—mfr. varnishes, lacquers, dry colors, printing inks, transparent varnishes and paints, linoleum, oil-cloth, match head, pyrotechnic and rubber compositions. Grades—tech. (as to color and quality); Batavia; Singapore; East Indian.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251

GUM DAMAR (cont'd)

†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
†Leonhard, Thes, Wax Co Inc, 136 Church St, Haledon, Paterson, N J — Mulberry 4-1444
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Wah Chang Corp, 233 Bway, N Y — Cortlandt 7-0887

Busschaert, P S, Inc, N Y — McNulty, Joseph A, N Y
Fidelity Trading Co, Inc, San Fran, Calif — Scheel, Wm H, Inc, Bklyn, N Y
France, Campbell & Darling, Inc, Kenilworth, N J — Thurston & Braidich, N Y
Wiswell & Co, Belmont, Mass
Internatio-Rotterdam, Inc, N Y

GUM EAST INDIA

From Acacia Abyssinica. Habitat—Abyssinia, Somaliland. Sol. water. Uses—mfr. mucilage, adhesives. Grades—tech.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
†Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

Internatio-Rotterdam, Inc, N Y — Scheel, Wm H, Inc, Bklyn, N Y
Moser, George, & Son, Inc, Detroit, Mich — Thurston & Braidich, N Y

GUM ELEMI (Canarium, Manila Elemi)

Resin from Canarium commune, etc. Habitat—Philippine Islands. Soft, transparent, yellowish, granular masses. Sp. gr. 1.018-1.088. M.P. 120°C. Sol. alcohol, ether, chloroform. Uses—mfr. paints, varnishes, lacquers, printing inks, perfumery, linoleum, oil-cloth; as ingredient of fireproofing and waterproofing compositions; in process engraving and lithography; in medicine. Grades—tech.

Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

McNulty, Joseph A, N Y — Thurston & Braidich, N Y
Scheel, Wm H, Inc, Bklyn, N Y

GUM ESTER

Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

†Crosby Chems, Inc, De Ridder, La — †Industrial Resin Corp, Whippany, N J
†Glidden Co, Jacksonville, Fla — McNulty, Joseph A, N Y

GUM GAMBIER (Pale Catechu, Gambir, Terra Saponica)

Extracted from wood of Unicaria Gumbir. Habitat—India. Odorless, brown powd. Uses—mfr. boiler compounds; in tanning leather; calico printing and dyeing textiles; in medicine. Grades—U.S.P. (Uncaria Gambir); extract; cubes.

Colony Import & Export Corp, 11 E 44 St, N Y — Murray Hill 2-3160
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

Busschaert, P S, Inc, N Y

GUM GAMBOGE (Coloring Gum, Cambogia, Gummi Guttal)

Grayish or orange-brown amorp., cylindrical pieces. Acid No. 68-89. Saponification No. 115-150. Sp. gr. 1.03. Sol. acetone, alcohol, methanol, benzene, ether; insol. water. Uses—mfr. varnishes, lacquers, paints. Grades—U.S.P.; glassy; ordinary; Guaiacum Officinale.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

GUM GHATTI

Acacia gum. Sol. water. Uses—see Gum Arabic. Grades—tech.

†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Colony Import & Export Corp, 11 E 44 St, N Y — Murray Hill 2-3160
†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y — Hanover 2-3750
†Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

Lyon, Julian W, N Y

GUM GUAIAC (Guaiacum, Guaiac Resin)

Resin of the wood of Guaiacum officinale or Guaiacum sanctum. Habitat—Florida, West Indies, South America. Sp. gr. 1.2 M.P. 85-90°C. Sol. alcohol, ether, acetone, caustic soda, chloroform. Uses—mfr. varnishes; in medicine. Grades—U.S.P. (Garcinia Hanburn); pipe; blocky; powd.

GUMS

CRUDE

POWDERED — CRYSTALS

KARAYA
ARABIC
TRAGACANTH
LOCUST BEAN
OLIBANUM
MYRRH
SHIRAZ
OPOPONAX
SANDARAC
IRISH MOSS— in all its forms

WM. M. ALLISON & CO.

162 Water St., N. Y. C. 7

Whi 3-7422

GUM GUAIAC (cont'd)

Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Dodwell & Co, Ltd, 120 Wall St, N Y	Hanover 2-1580
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
†Moor Corp, 318 W 46 St, N Y	Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970

Lyon, Julian W, N Y

GUM KARAYA (Indian Gum, Kadaya)

Gummy exudation from Sterculia campanulata. Habitat—Africa, Australia. Uses—mfr. varnishes, lacquers, inks, rubber compositions, linoleum, oil-cloth, polishes; in process engraving, coating paper. Grades—as to color, white to gray. Sterculia Campanulata.

†Allison, Wm M, & Co, 162 Water St, N Y	Whitehall 3-7421
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Colony Import & Export Corp, 11 E 44 St, N Y	Murray Hill 2-3160
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Dallal, D S, & Co, 261 5 Av, N Y	Murray Hill 3-8646
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Dodwell & Co, Ltd, 120 Wall St, N Y	Hanover 2-1580
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y	Walker 5-5530
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y	Hanover 2-3750
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Moor Corp, 318 W 46 St, N Y	Judson 6-0900
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Stein, Hall & Co, Inc, 285 Madison Av, N Y	Murray Hill 9-0800
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

Burtonite Co, Nutley, N J
Grore, M O, & Co, San Fran, Calif
†Hathaway Allied Prods, Los Angeles, Calif
Lyon, Julian W, N Y
†Moyce Chem Co, Carlton Hill, N J

GUM KAURI (Kauri Resin)

Yellow, amber-like resin from New Zealand. Sp. gr. 1.050. M.P. 182-232°C. Sol. alcohol, turpentine, petroleum spirit, benzol; insol. water. Uses—mfr. varnishes, Japans, paints, cements, amber substitutes, linoleum, oil-cloth. Grades—various as to color and size of pieces.

Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
†Moor Corp, 318 W 46 St, N Y	Judson 6-0900
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa	Michigan 4-3460
U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700

Thurston & Braidich, N Y

GUM KAURI (cont'd)

water. Uses—mfr. varnishes, Japans, paints, cements, amber substitutes, linoleum, oil-cloth. Grades—various as to color and size of pieces.

Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
†Moor Corp, 318 W 46 St, N Y	Judson 6-0900
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa	Michigan 4-3460
U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700

Thurston & Braidich, N Y

GUM KINO

Inspissated juice of Pterocarpus marsupium. Habitat—Western Africa, East India, Ceylon, Bengal. Uses—in tanning leather; textile sizing; in medicine. Grades—tech.

†Moor Corp, 318 W 46 St, N Y	Judson 6-0900

GUM LOCUST BEAN (Tragasol)

Produced from the seeds of the carob tree which has extensive sources around the Mediterranean basin from Spain to Palestine. Uses—principally as sizing agent in textile manufacture.

†Allison, Wm M, & Co, 162 Water St, N Y	Whitehall 3-7421
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Colony Import & Export Corp, 11 E 44 St, N Y	Murray Hill 2-3160
†Dodwell & Co, Ltd, 120 Wall St, N Y	Hanover 2-1580
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y	Walker 5-5530
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y	Hanover 2-3750
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Moor Corp, 318 W 46 St, N Y	Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Stein, Hall & Co, Inc, 285 Madison Av, N Y	Murray Hill 9-0800
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

Burtonite Co, Nutley, N J
Grore, M O, & Co, San Fran, Calif
†Hathaway Allied Prods, Los Angeles, Calif
Lyon, Julian W, N Y
Murbas Trading Co, N Y
Thurston & Braidich, N Y

COLONY

Import & Export Corp.

9 EAST 44th STREET • NEW YORK 17, N. Y.

GUMS

LOCUST BEAN (Carob Flour)
ARABIC
GHATTI
KARAYA
Crude and Milled TRAGACANTH

For Food, Drug and Industrial Uses

GUM MACASSAR

A general name given a large group of gums whose principal shipping port is Macassar. (See Gum Manila, Gum East India, Gum Pontianak, etc., for details). Grades—tech.

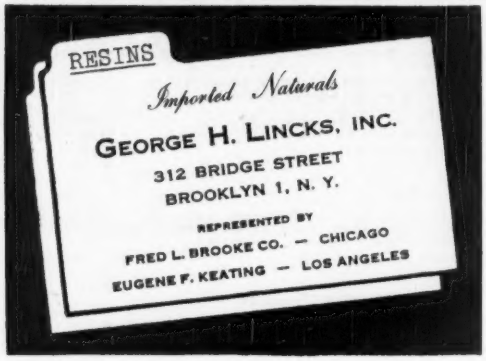
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Innes, O G, Corp, 82 Wall St, N Y	Hanover 2-7450
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700

Internatio-Rotterdam, Inc, N Y
Scheel, Wm H, Inc, Bklyn, N Y
Thurston & Braidich, N Y
Wiswell & Co, Belmont, Mass

GUM MANILA (Manila)

Yellowish to brownish-yellow masses. From Agathis alba and Dammara orientalis. Habitat—Philippines. Sp. gr. 1.065 and 1.060. M.P. 190°C. and 120°C. Saponification No. 87.0 and 105.1. Acid No. 72.8 and 145.2. Sol. ether, alcohol, methanol, mixtures of amyl and ethyl alcohol; insol. turpentine; partially sol. acetone. Uses—mfr. varnishes, lacquers, enamel paints. — Grades—tech.

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Innes, O G, Corp, 82 Wall St, N Y	Hanover 2-7450
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa	Michigan 4-3460



GUM MANILA (cont'd)

Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

Cooper, T G, & Co, Inc, Phila, Pa — Scheel, Wm H, Inc, Bklyn, N Y
France, Campbell & Darling, Inc, Kenilworth, N J — Thurston & Braidich, N Y
Wiswell & Co, Belmont, Mass

GUM MASTIC (Mastiche, Mastix, Pistachia Galia)

Pale yellowish or greenish transparent resin. Dervied from Piscati alenticus. Sp. gr. 1.04-1.07. M.P. 105-120°C. Acid No. 50-70. Saponification No. 82-93. Sol. acetone, alcohol, oil of turpentine. Uses—mfr. spirit varnishes, lacquers, adhesives, incense, chewing gum, lithography; in medicine. Grades—N.F. (Pistacia Lentisus); tears; sorts; U.S.P.; tech.

†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655

Lyon, Julian W, N Y — Scheel, Wm H, Inc, Bklyn, N Y

GUM MYRRH (Herrabol Myrrh)

Gum resin of Commiphora myrrha. Irregular brown tears. Habitat—Nubia, Somaliland, Arabia. Sp. gr. 1.12 to 1.28. Acid No. 60-70. Saponification No. 159-230. Uses—mfr. dental preparations, cosmetics, incense, paints, varnishes, lacquers, dye preparations; in medicine. Grades—U.S.P.; ordinary; select.

†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530

Lyon, Julian W, N Y

GUM OLIBANUM

Clear yellow resin from Boswellia Carteri. Habitat-British India. Odor of incense, gray to brown, in lumps and granules. Uses—mfr. of incense, aromatic oils, perfumes, pastilles, fumigating powders. Grades—tears and siftings.

†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Republic Chem Corp, 94 Brekman St, N Y — Rector 2-9810
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Hathaway Allied Prods, Los Angeles, Calif — Lyon, Julian W, N Y Wholesale Supply Co, Los Angeles, Calif

GUM OPOPANAX

Oleo-gum-resin of reddish-yellow color; unpleasant odor; bitter, acrid taste. Derived from exudation of Opoponax chironium, native to the Levant and southern France, Italy and Greece. Sol. partly in water.

†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530

GUM PONTIANAK (Jelutong)

Derived from species of Dyera. Habitat—Malacca, Borneo. Sp. gr. 1.087. M.P. 135°C. Saponification No. 186.5. Acid No. 134. Iodine No. 119-142. Sol. turpentine, alcohol, ether, benzol, amyl alcohol, hot caustic alkali; partially sol. volatile oils, carbon disulfide, chloroform; insol. water, benzene, benzine. Uses—mfr. paints, varnishes, chewing gum, linoleum, oil-cloth, rubber compositions. Grades—tech.

GUM PONTIANAK (cont'd)

Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

Scheel, Wm H, Inc, Bklyn, N Y

GUM ROSIN—see Rosin Gum

GUM SANDARAC (Juniper Gum, Sandarach)

Derived from Callitris quadrivolvia. Habitat—Morocco. Light yellow tears, brittle and translucent. Sp. gr. 1.04. M.P. 135-149°C. Acid No. 95-160. Saponification No. 143. Sol. alcohol, ether, amyl alcohol, hot alkalies; partly sol. carbon disulfide, chloroform, oil of turpentine. Uses—mfr. paints, varnishes, lacquers, dental cements, incense, erasers, linoleum, oil-cloth; as fumigant. Grades—tech. (Callitris Quadrivolvia).

†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Lyon, Julian W, N Y — Scheel, Wm H, Inc, Bklyn, N Y

GUM SENEGAL—see also Gum Arabic

Variety of gum arabic. Habitat—West Africa. Sp. gr. 1.436. Uses—mfr. paints, varnishes, lacquers, artist's water colors, baked products, confectionery, inks, adhesives, mucilage; in process engraving; binding books; treating textiles and paper; as ceramic ingredient; in medicine. Grades—as to quality.

†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y — Hanover 2-3750
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673

Thurston & Braidich, N Y

GUM SHIRAZ

Uses—mfr. printing pastes for fabrics, shoe blackings, rubber compositions, glues, adhesive preparations, sweetmeats, custard powders, pie fillings; oil-cloth, linoleum, varnishes; in printing and lithography; coating photographic paper. Grades—tech.

†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Dallal, D S, & Co, 261 5 Av, N Y — Murray Hill 3-8646
†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y — Hanover 2-3750
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900

†Royce Chem Co, Carlton Hill, N J

GUM, STYRAX

†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120

Lyon, Julian W, N Y

GUM THUS (Olibanum, Frankincense)

Gum resin from Boswellia Carterii Birdwood. Habitat—Egypt, Somaliland. Vol. oil 3-8%; resin 60-70%; bitter principle; gum (27-35%). Uses—in fumigation; in medicine.

Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

GUM TRAGACANTH (Goat's Horn, Hog Gum, Gum Dragon)

Derived from Astragalus gummifer. Habitat—Levant. White, amorp., ribbon-shaped bands. Sp. gr. 1.384. Sol. alkaline solutions, aqueous peroxide of hydrogen solutions. Uses—mfr. shoe and metal polishes, cosmetics, toilet preparations; as ingredient in printing textiles, pyrotechnic and match head compositions; emulsifying agent for various chemical purposes; in dressing leather; in medicine. Grades—U.S.P. (Astragalus Gummifer); Aleppo Turkish; Nos. 1 to 6 as to quality. Ribbons and powd.; Indian (see Karaya).

†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
Colony Import & Export Corp, 11 E 44 St, N Y — Murray Hill 2-3160
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
Dallal, D S, & Co, 261 5 Av, N Y — Murray Hill 3-8646
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Duche, T W, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y — Hanover 2-3750

GUMS

TRAGACANTH KARAYA ARABIC
QUINCE SEED NUTGALLS

D. S. DALLAL & CO.
261 FIFTH AVENUE, NEW YORK 16
IMPORT Direct Importers EXPORT
TELEPHONE MURRAY HILL 3-8646-7-8

GUM TRAGACANTH (cont'd)

Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
McAdam, T F, Inc, 125 Broad St, N Y	Digby 9-3525
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Meer Corp, 318 W 46 St, N Y	Judson 6-0900

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"Visco-Measured"

Gums whole · powdered granulated · crystal

KARAYA · ARABIC
"Superfine" Powders N F "Premium" Powders O S P

· TRAGACANTH
"Selected" Powders U S P

· LOCUST BEAN
"Premier" Powder

All Dodwell gums are produced under new processes which guarantee:

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- ***CLEANLINESS**—Maximum obtained by unique methods*
- ***SIZE**—Controlled by precision machinery*
- ***VISCOSITY**—Measured and guaranteed*

Dodwell and Company Ltd.
120 Wall St., N.Y. 5, N.Y. · Gum Division · HA 2-1580
Plant and Laboratories · Metuchen, New Jersey

†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Stein, Hall & Co, Inc, 285 Madison Av, N Y	Murray Hill 9-0800
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048

GUM TRAGACANTH (cont'd)

Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000
Grove, M O, & Co, San Fran, Calif	†Royce Chem Co, Carlton Hill, N J
†Hathaway Allied Prods, Los Angeles, Calif	Smith Crude Drug & Spice Corp, N Y

PENICK *Evenized* GUMS

TRAGACANTH TALHA
LOCUST ARABIC
KARAYA GHATTY

S. B. PENICK & COMPANY
50 CHURCH STREET, NEW YORK 7, N. Y. · TELEPHONE: CORTLANDT 7-1970
735 W. DIVISION STREET, CHICAGO 10, ILL. · TELEPHONE: MOHAWK 5651

GUM ZANZIBAR (Animi Gum)

Variety of copal from Zanzibar. Derived from species of Trachylobium. Insol. most solvents. Uses—mfr. varnishes, lacquers. Grades—bean, pea; sorts.

Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673

GUMS ESTER

Glyceryl, methyl, and ethyl esters of abietic acid (rosin). Sol. amyl acetate, chloroform, turpentine. Glycerine derivative. B.P. 290°C. cellulose lacquers; with tung oil for waterproofing varnishes. Grades—glycerin resinates graded as to color.
Uses—in place of copal, damar, and kauri gums in paints, enamels.

†Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill	Bishop 2-1374
†Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa	Rittenhouse 6-3874
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
†Hercules Powder Co, 978 Market St, Wilmington, Del	
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich	Jordan 4-6500
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
†Crosby Chems, Inc, De Ridder, La	†Industrial Resin Corp, Whippany, N J
Hinz, J H, Co, Cleveland, O	McNulty, Joseph A, N Y
Hueston, C L, Detroit, Mich	

GUMS LACQUER

Natural or synthetic gums employed in lacquer formulation to impart durability to the film. In the natural group the damars are most important, Kauri and copal next, followed by a miscellaneous list of the so-called varnish gums. In the synthetic group ester gum, produced from glycerine, is widely used, also various types of synthetic resins of the coal-tar, phenolic, alkyd, etc., types.

†Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill	Bishop 2-1374
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Hercules Powder Co, 978 Market St, Wilmington, Del	
Innet, O G, Corp, 82 Wall St, N Y	Hanover 2-7450
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
†Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
†Crosby Chems, Inc, De Ridder, La	†Industrial Resin Corp, Whippany, N J

GUMS VARNISH (Natural)

Natural materials incorporated in varnishes, paints, lacquers, enamels, etc., to produce a hard and durable film. The principal varnish gums rated according to hardness are: Zanzibar Anime; Benguela; Angola; North Coast, or Accra; Kauri; Pontianak; Congo; Manila; East India; Sandarac; Damar.

†Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill	Bishop 2-1374
†Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa	Rittenhouse 6-3874
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Dalton-Cooper Inc, 200 W 34 St, N Y	Longacre 4-2910
†Hercules Powder Co, 978 Market St, Wilmington, Del	
Innes, O G, Corp, 82 Wall St, N Y	Hanover 2-7450
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa	Michigan 4-3460
†Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Stein, Hall & Co, Inc, 285 Madison Av, N Y	Murray Hill 9-0800
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
Busschaert, P S, Inc, N Y	Internatio-Rotterdam, Inc, N Y
†Crosby Chems, Inc, De Ridder, La	Jensen & McClelland, Chicago, Ill
Furnam, James H, Co, Chicago, Ill	Tabler, Wm B, Co, Louisville, Ky
†Industrial Resin Corp, Whippany, N J	

GUMS WATER-SOLUBLE—see also Gums Synthetic, Gums, Textile Printing, Resins, Synthetic, Specialties Section

Broad term denoting those natural gums which are wholly or partially soluble in water as contrasted with the so-called varnish gums or spirit-soluble gums. Principal members of the group are Arabic, Locust Bean, Karaya, Tragacanth, etc.

†Alkydal Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Colony Import & Export Corp, 11 E 44 St, N Y — Murray Hill 2-5160
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y — Hanover 2-3750
†Hercules Powder Co, 978 Market St, Wilmington, Del
†Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6675
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Anton-Murray Co, Chicago, Ill
Browning, E S, Co, San Fran, Calif
Bunchaert, P S, Inc, N Y
†Hathaway Allied Prods, Los Angeles, Calif
Laist, H R, Co, San Fran, Calif

The Variety and Versatility of

ISCO WATER SOLUBLE GUMS

HELPS SOLVE NEW PROCESSING PROBLEMS

GUM ARABIC—Sorts, Powdered, Crystals
GUM KARAYA—White, Powdered, Crystals
GUM TRAGACANTH—Ribbon, Flake, Powdered
GUM GHATTI—White, Powdered
LOCUST BEAN GUM
ALGIN
IRISH MOSS—Whole and Powdered

INNIS, SPEIDEN & CO.
117 LIBERTY ST., NEW YORK 6
BOSTON CLEVELAND GLOVERSVILLE
CHICAGO CINCINNATI PHILADELPHIA
SUBSIDIARY E. S. BROWNING CO.
SAN FRANCISCO • LOS ANGELES

GYPSUM (Calcium Sulfate, Alabaster, Gypsite, Selenite, Satin Spar)—see also Calcium Sulfate

$CaSO_4 2H_2O$. M.W. 172.17. White, red, gray, yellow or blue—black or brown when impure—crystalline. Natural. Sp. gr. 2.32. Loses water at 163°C. Sol. hydrochloric acid, common salt, ammonium salts. Uses—mfr. Plaster of Paris, ammonium sulfate and other inorganic chemicals, Keene's cement, special cement paints, imitation ivory products and other plastics, polishing powd., baking powds., self-raising flours; in fertiliser compositions; softening hard water in brewing; dyeing textiles and calicoes; smelting zinc ores; as manure preservative and soil stimulant; retarding agent in cements; paint filler and pigment; drier in oils, terra alba and other mineral pigments; filler for plaster-board, wall-board, tile, and blocks, making stucco; surface coating papers. (Note, these uses include those for Calcium Sulfate as well.) Grades—crude; ground; anhydrous. (See also Calcium Sulfate.)

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†U S Gypsum Co, Industrial Div, 300 W Adams St, Chicago, Ill — State 2-6100
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670

USG UNITED STATES GYPSUM

Gypsum Products
GYPSUM FILLERS
(Hydrous & Anhydrous)
Terra Alba
Industrial Gypsum Plasters
HYDROCAL® Super Strength Gypsum Cements

UNITED STATES GYPSUM COMPANY
Industrial Division
300 W. Adams St. Chicago 6, Illinois
®HYDROCAL is a trademark Reg. U. S. Pat. Off. for a super-strength gypsum cement manufactured by the United States Gypsum Co.

GYPSUM (cont'd)

†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Dehls & Stein, Inc, Newark, N J

GYPSUM, AGRICULTURAL

Official definition of the Association of Official Agricultural Chemists: Gypsum, Land Plaster, or Crude Calcium Sulfate, are products consisting chiefly of calcium sulfate. They may contain 20% combined water.

Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†U S Gypsum Co, Industrial Div, 300 W Adams St, Chicago, Ill — State 2-6100
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
†Priddy, C W, & Co, Inc, Norfolk, Va

HELIOTROPIN (Piperonal)

$CH_2O_2C_6H_3CHO$. M.W. 150. Colorless crystals. Sol. alcohol, ether. Uses: perfumery.

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

Biber, Hegner & Co, Inc, N Y

uniform quality
heliotropine
TECHNICAL GRADE • PERFUMER'S GRADE
More than 151 years of Progress and Experience
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180 Varick Street • New York 14, N. Y.
ESSENTIAL OILS • AROMATIC CHEMICALS
PERFUME BASES • VANILLA • FLAVOR BASES

HELIUM

He. Colorless, inert gas. Liquefies at —268.82°C. Uses—Electric luminescent tubes, gas cells of lighter-than-air craft.

Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
Edison, Thomas A, Inc, Stuyvesant Falls, N Y
†Linde Air Prods Co, N Y
Air Reduction Sales Co, N Y
†Amer Oxygen Service Corp, Harrison, N J
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio
Pittsburgh Thermoline Co, Pittsburgh, Pa

HELLEBORE ROOT (Veratrum Viride)

Dried rhizome and roots of Veratrum Viride. Habitat—Eastern and Central U. S. Uses—in medicine. Grades—American U.S.P. (Veratrum Viride); black (Helleborus Niger); white (Veratrum Album).

Dee & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

HEMATEIN

$C_{16}H_{12}O_6$. Green to reddish brown crystals. Uses: biological stain; indicator.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2725
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8832

HEMATOXYLIN (Hydroxybrasilin)

$C_{16}H_{14}O_6$. Yellow to brown crystals which redden on exposure to light and air. Uses: widely used as a biological stain; in ink manufacture, textile dying.

†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8832

HEMLOCK EXTRACT

Extract made from bark of Tsuga canadensis. Uses—mfr. boiler compounds; in tanning leather. Grades—liq.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Heap, F J, & Son, Inc, Boston, Mass — Tanners Supply Co, Grand Rapids, Mich

HEPTACHLOROPROPANE

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

HEPTADECANOL

$C_{17}H_{35}OH$. M.W. 256.46. Colorless liquid. B.P. 308.5°C. Sp. gr. 0.8475 at 20°C. Very slightly sol. in water. Uses: plasticizer intermediate; perfume fixative for cosmetic preparations; mfr. detergents.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

HEPTALDEHYDE

$CH_3(CH_2)_5CHO$. M.W. 114.18. Colorless liquid with a mild, pungent odor. Uses: prep. of various heptyl derivatives, intermediates, pharmaceuticals, synthetic aromatic chemicals.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

HEPTANE (Methyl-hexane, Dipropylmethane, Hexyl-Methane)

C_7H_{16}. M. W. 100.12. Commercial grade from natural gas. Boiling range 90-100°C. Sp. gr. .684. Uses—organic synthesis, organic analysis, solvents, preparation of laboratory reagents.

Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†Humphrey-Wilkinson, Inc, De Vine St, North Haven, Conn — New Haven 2-7771
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

Phillips 66 HYDROCARBONS

COMMERCIAL GRADE

NORMAL HEPTANE

PHILLIPS PETROLEUM COMPANY

Chemical Products Department

BARTLESVILLE, OKLAHOMA

HEPTANE (cont'd)

Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, Chem By-Prods Co, Chicago, Ill — †Kelly Oil Co, Kansas City, Mo

HEPTANOL-2

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

HEPTYL BROMIDE (Normal)

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

HEPTYL BROMIDE (Secondary)

†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

n-HEPTYL IODIDE

†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125
†Jorala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

HEPTYL MERCAPTAN, tertiary

$C_7H_{15}SH$. M.W. 132.48. Boiling range 142-176°C. Use: chemical intermediate.

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

HEXACHLOROBENZENE

C_6Cl_6. White cryst. solid. M.P. 224-227°C. Uses—as an intermediate.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200

HEXACHLORODIPHENYL OXIDE

†Dow Chem Co, Midland, Mich — Midland 500

HEXACHLOROETHANE (Carbon Trichloride, Carbon Hexachloride, Perchloroethane)

C_2Cl_6. M.W. 236.74. White cryst., camphor odor. Sp. gr. 2.091. M.P. 185.6-185.7°C. B.P. sublimes at 185°C. Sp. Heat, 25°C., 0.175 g. cal., Heat of Sublimation (at subl. point), 11,000 g. cal./g. mole. Sol. alcohol, ether. When exposed to the air vaporizes slowly. Uses: mfr. intermediate and organic chemicals, accelerators; fireworks; fermentation retarding; as camphor substitute in Celluloid; ingredient of safety explosives; in medicine. Grades—tech.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Dow Chem Co, Midland, Mich — Midland 500
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200

HEXACHLORONAPHTHALENE

$C_{10}H_2Cl_6$ Mol. wt. 334.8. Melting point 135°C. Sol. in organic solvents, insol. in water. Yellow to pale yellow waxy solid in lump form. Uses—in compounds for insulating electric cable.

†Halowax Prods Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

HEXACHLOROPROPYLENE (Perchlorpropylene)

CCl_3-CCl:CCl_2. M.W. 249. Water white; mild odor. Insol. water; miscible with alcohol, ether, chlorinated solvents. Uses: solvent and plasticizer for rubber and other polymeric materials; non-flammable hydraulic fluid.

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

HEXADECYL MERCAPTAN, tertiary

$C_{16}H_{33}SH$. M.W. 259.02. Boiling range 126-150°C. Uses: rubber modification, insecticides, fungicides, chemical intermediate.

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

HEXAETHYL TETRAPHOSPHATE

$C_{12}H_{30}O_{13}P_4$. M.W. 460.44. Light yellowish to dark liquid. Uses: insecticide.

†Eston Chems Inc, 3100 E 26 St, Los Angeles, Calif — Angelus 9-8183
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

n-HEXALDEHYDE

$C_6H_{12}O$. M.W. 94.16. Colorless liquid possessing a sharp aldehyde odor. B.P. 129.0°C. Uses—mfr. plasticizers, rubber chemicals, dyes, synthetic resins, insecticides; chemical synthesis.

n-HEXALDEHYDE (cont'd)

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

HEXAMETHYL IODIDE

†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

HEXAMETHYLENE DIBROMIDE

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550

†Sapon Labs, Bklyn, N Y

HEXAMETHYLENETETRAMINE (Urotropin, Cystamin, Ammonio-formaldehyde, Formin, Aminoform, Hexamine, Cystogen, Methenamine, Hexamethyleneamine, Gelloformin)

$C_6H_{12}N_4$. Colorless cryst. M.P. 280.1°C. Sol. water, alcohol, chloroform. Uses—mfr. synthetic resins, vulcanization accelerators, absorbent military gas masks, pharmaceutical derivatives; in medicine; waterproofing agent for glue for cork products. Grades—U.S.P.; rubber makers impalpable powd.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

HEXANE (Caproyl Hydride, Hexyl Hydride)

C_6H_{14}. M.W. 86.14. Usually colorless liq. Sp. gr. 0.658. F.P.—94°C. B.P. 69°C. Highly inflammable. Insol. water, sol. alcohol, ether. Usually marketed in two grades, commercial, with boiling range 60-70°C. and a sp. gr. of .667, and a normal grade with a boiling range of 65-67°C. and a sp. gr. of .678, used largely for research purposes.

Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†Humphrey-Wilkinson, Inc, De Vine St, North Haven, Conn — New Haven 2-7771
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

Chem By-Prods Co, Chicago, Ill — †Skelly Oil Co, Kansas City, Mo

Phillips 66 HYDROCARBONS
COMMERCIAL GRADE
NORMAL HEXANE
PHILLIPS PETROLEUM COMPANY
Chemical Products Department
BARTLESVILLE, OKLAHOMA

HEXESTROL

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
†Fallek Prods Co Inc, 163 Bway, N Y — Barclay 7-7939
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

†Biorganic Labs, Inc, Bklyn, N Y — †Drug Labs, Phila, Pa

HEXONE (Methyl Isobutyl Ketone)

$(CH_3)_2CH.CH_2COCH_3$. Liquid with agreeable odor. B.P. 118°C. Weight, 6.67 lbs. to gal. Sp. gr. .798-.804 at 20°/20°C. B.R. 115°.

HEXONE (cont'd)

122°C. Acidity not more than .05% calc. as ascetic acid. Flash 23°C. Solubility in water, 87% at 20°C. Sol. in acetone, alcohol, ether, hydrocarbons and most organic liquids. Evaporates slightly faster than butyl acetate. Uses—solvent for nitrocelluloae, gums, resins; used in lacquers as "medium-boiling" solvent.

C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

HEXYL BROMIDE

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

n-HEXYL IODIDE (1-IODOHEXANE)

$C_6H_{13}I$. M.W. 212.03. Heavy, colorless to amber liquid; pleasant sweet odor. Sol. most organic solvents. Insol. water. Uses: intermediate in organic syntheses, in mfg. of pharmaceuticals.

†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125
†Jorala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

HEXYLENE GLYCOL—see 2-Methyl-2, 4-Pentanediol

HEXYL MERCAPTAN

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

HEXYL PYRIDINE

†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

HEXYLENE GLYCOL—see 2-Methyl-2,4-Pentanediol

HEXYLRESORCINOL

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400

†Arenol Chem Corp, Long Is City, N Y — Red Star Chem Co, Inc, Long Is City, N Y

HEXYLRESORCINOL USP
An Antiseptic
Of Proven Merit
•
SPECIAL CHEMICALS DIVISION
Winthrop-Stearns INC.
1450 BROADWAY, NEW YORK 18, N. Y.

HISTAMINE (B-Iminoazolyl-4-Ethylamine, B-Aminoethylglyoxaline)

$C_5H_9N_3$. M.W. 111. White crystals. Uses: medicine.

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600

HISTAMINE DIPHOSPHATE

$C_5H_9N_3.2H_3PO_4$. M.W. 307.18. White crystals. Uses: medicine.

Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600

†Lewis, Paul, Lab, Inc, Milwaukee, Wis

HISTAMINE SALTS

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230

HISTAMINE SALTS (cont'd)

†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Lack Chem Co, 19 Park Pl, N Y	Cortlandt 7-5942

HISTIDINE MONOHYDROCHLORIDE (a-Amino-B-Iminazolylpropionic Acid)

$C_6H_9O_2N_3.HCl$. M.W. 191.48. White crystals. Uses: medicine.

†Amer Quinine Co, 15 William St, N Y	Hanover 2-7983
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Lack Chem Co, 19 Park Pl, N Y	Cortlandt 7-5942
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
†Winthrop-Stearns Inc, 1450 Bway, N Y	La 4-6400

HISTIDINE SALTS

Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Lack Chem Co, 19 Park Pl, N Y	Cortlandt 7-5942

AMERICAN ROLAND CORPORATION

16 HUDSON STREET, NEW YORK 13, N. Y.

Hormone & Endocrine Products
Amino Acids — Pharmaceutical Chemicals
Alkaloids — Vitamin Products
Botanicals and Drugs
Essential Oils, etc., etc.
Laboratory Apparatus & Supplies
Chemical Processing Equipment

HORMONES

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Chemstar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Conway Prods Co, 510 6 Av, N Y	Oregon 5-2505
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
†Fallek Prods Co Inc, 163 Bway, N Y	Barclay 7-7939
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Jerala Prods Co, 894 Whittier St, Bronx, N Y	Dayton 3-1137
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
†Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
†Vitamins Inc, 809 W 58 St, Chicago, Ill	Normal 2727

HORMONES since 1937

Estrone — Estradiol
Insulin — Progesterone
Thyroid — Testosterone

Proteins & Amino Acids
Fine Pharmaceuticals
Enzymes

HERMAN MEYER DRUG CO.

116-23 Jamaica Avenue, Richmond Hill, N. Y.
Telephones: Virginia 9-6176, 6185
Cables: Estrone, New York

TUBICHEM

HORMONE SPECIALISTS

TUTEUR BIO-CHEMICALS INC. 60 WALL STREET NEW YORK 5, N. Y.

HORMONES (cont'd)

†Arenol Chem Corp, Long Is City, N Y	Bodman, F L, Inc, Phila, Pa
Bingham & Co, Inc, N Y	†Drug Labs, Phila, Pa
†Biorganic Labs, Inc, Bklyn, N Y	†Glidden Co, Chicago, Ill

HYALURONIDASE

†Biorganic Labs, Inc, Bklyn, N Y

HYDRAZINE BASE

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

HYDRAZINE

HYDRAZINE Free Base
HYDRAZINE HYDRATE 100%
HYDRAZINE HYDRATE 85%
HYDRAZINE SULFATE c.p.
HYDRAZINE SULFATE 95-98%

CONSOLIDATED MIDLAND CORPORATION
KATONAH, NEW YORK, U. S. A.

HYDRAZINE DIHYDROCHLORIDE

$N_2H_4.2HCl$. White crystalline powd. M.P. 198°C. Sol. water; slightly sol. alcohol. Uses—mfr. phenylhydrazine; in organic synthesis.

†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

HYDRAZINE HYDRATE (Diamide Hydrate)

$H_2N.NH_2H_2O$. Liq. with alkaline reaction. Fumes on contact with air. Sp. gr. 1.037 (15°C.). B.P. 119°C. Sol. alcohol, water; insol. chloroform, ether. Uses—in chemical analysis and synthesis.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y	Caledonia 84
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

HYDRAZINE SULFATE (Diamine Sulfate)

$(NH_2)_2H_2SO_4$. Colorless cryst. or white crystalline powd. M.P. 254°C. Sol. water; insol. alcohol. Uses—as fungicide and germicide; reducing agent metallising mirrors.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005

HYDRAZINE SULFATE (cont'd)

†Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919
Elmer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Tutsar & Co, Inc, 60 Wall St, N.Y	Digby 4-6660

o-Chloromercuriphenol

Pharmaceutical antiseptic fungicide.

Hydrazine sulfate

Laboratory reagent, chemical intermediate.

Manufacturers of high purity, organic chemicals in commercial quantities for use as intermediates, process raw materials and formula ingredients for the chemical, pharmaceutical, dyestuff and photographic reproduction industries.

EDWAL Quality Fine Chemicals

Edwal Laboratories • Ringwood, Illinois

HYDRAZOBENZENE (Hydrazobenzol, Di-phenyl-hydrazine, Bi-aniline)

$C_6H_5NH.NHC_6H_5$. M.W. 184.12. White to yellowish crystalline powd. M.P. 226°C. Sol. alcohol, benzene, chloroform; very slightly sol. water. Uses—mfr. benzidine, intermediates.

†Carwin Co, Stiles Lane, North Haven, Conn	New Haven 2-2161
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

HYDROCARBONS

SATURATED AND UNSATURATED IN THE C_6-C_{18} RANGE

- Notable for purity and freedom from isomers.
- Available in production and experimental quantities.
- Prices and literature on request.

HUMPHREY-WILKINSON

INCORPORATED

Chemical Manufacturers

DEVINE STREET, NORTH HAVEN, CONN.

HYDROFURAMIDE

$(C_4H_3O\text{-}CH)_2N_2$. M.W. 268.26. Brownish yellow solid. M.P. 115-120°C. Sol. alcohol, ether, chloroform, acetone. Insol. glycerin, turpentine. Uses: synthetic resins (curing agent), rubber accelerators, rubber anti-oxidants; fungicides for diseases of wheat, corn.

†Quaker Oats Co, Chicago, Ill

HYDROGEN BROMIDE, ANHYDROUS

†Dow Chem Co, Midland, Mich	Midland 500
†Elston Chems Inc, 3100 E 26 St, Los Angeles, Calif	Angelus 9-8183
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500

HYDROGEN CHLORIDE, ANHYDROUS

HCl. M. W. 36.47. Colorless gas or liquid. Uses—for certain reactions where muriatic acid is not suitable, such as production of vinyl chloride from acetylene, alkyl chlorides from olefins, separating cotton from wool in reworking shoddy, production of arsenious chloride from arsenious oxide, delinting cotton and other chemical reactions.

†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
†Dow Chem Co, Midland, Mich	Midland 500
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500

HYDROGEN CYANIDE—see Acid Hydrocyanic

†Amer Cyanamid Co, Agric Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa	Atlantic 1-6240

Phillips 66 HYDROCARBONS

AVAILABLE PHILLIPS 66 HYDROCARBONS LISTED BELOW	GRADE Research	Pure (99%)	Technical (95%)	Commercial
PARAFFINS				
Methane	X	X		
Ethane	X			
Propane	X	X	X	
Isobutane	X	X	X	
Normal Butane	X	X	X	
2, 2-Dimethylpropane	X	X	X	
Isopentane	X	X	X	X
Normal Pentane	X	X	X	X
2,2-Dimethylbutane	X	X	X	
2,3-Dimethylbutane	X	X	X	X
2-Methylpentane	X	X	X	
3-Methylpentane		X	X	
Methylpentanes				X
Isohexanes				X
Normal Hexane	X	X	X	X
2,4-Dimethylpentane	X	X	X	
2,3-Dimethylpentane			X	
Isoheptanes				X
Normal Heptane	X	X		X
2,2,4-Trimethylpentane	X	X		
2,3-Dimethylhexane			X	
Mixed Octanes				X
Isooctanes				X
Normal Octane	X	X	X	
2,2,5-Trimethylhexane	X	X	X	
Normal Nonane	X	X	X	

	GRADE Research	Pure (99%)	Technical (95%)	Commercial
CYCLOPARAFFINS				
Cyclopentane	X	X	X	X
Methylcyclopentane	X	X	X	
Cyclohexane	X	X	X	X
Methylcyclohexane	X	X	X	X
OLEFINS				
Ethylene	X			
Propylene	X	X	X	
Isobutylene	X	X	X	
Butene-1	X	X	X	
Butene-2, Low Boiling	X			
Butene-2, High Boiling	X	X	X	
Butene-2 (Mixed)		X	X	
3-Methylbutene-1	X	X	X	
2-Methylbutene-1			X	
2-Methylbutene-2	X	X	X	
Pentene-1	X	X	X	
Pentene-2		X	X	
4-Methylpentene-1			X	
4-Methylpentene-2			X	
Hexene-1	X	X	X	
Hexene-2			X	
Heptene-3			X	
Heptene-2			X	
Isoheptenes				X
2,4,4-Trimethylpentene-1	X	X	X	
2,4,4-Trimethylpentene-2			X	
Octene-2			X	
Isooctenes				X
CYCLOOLEFINS				
Cyclopentene	X			
Cyclohexene	X	X	X	
4-Methylcyclohexene-1			X	
4-Vinylcyclohexene-1	X	X	X	

	GRADE Research	Pure (99%)	Technical (95%)	Commercial
DIOLEFINS				
Butadiene-1,3	X	X		
2-Methylbutadiene-1,3	X	X		
AROMATICS				
Benzene	X	X		
Toluene	X	X	X	
Ethylbenzene	X	X	X	
Ortho Xylene	X	X		
Mixed Xylenes		X	X	
Isopropylbenzene	X	X	X	
sec-Butylbenzene	X	X		
tert-Butylbenzene	X	X		
n-Butylbenzene	X			

Phillips 66 HYDROCARBONS

Phillips Petroleum Company

CHEMICAL PRODUCTS DEPARTMENT

Bartlesville, Oklahoma

HYDROGEN FLUORIDE

HF. M.W. 20.01. Colorless fum. corros. liq. or gas. M.P.—92.3°C. B.P. 19.4 Sol. water. Uses—etching of glass, production of fluorides, pickling metals, ceramics, textiles.

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa	Atlantic 1-4545
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700

HYDROGEN GAS

H_2. Colorless gas. Sp. gr. 0.06949. Solidifies —259.2°C. B.P. —252°C. Sol. water, alcohol, ether. Uses—mfr. synthetic ammonia, electric light filaments, quartz, glassware, synthetic rubies and sapphires, platinum, organic chemicals, tungsten lamps; in hydrogenation oils, fats and hydrocarbon products; oxy-hydrogen welding flame; inflating balloons and airships; hydrogenizing naphthalene; hydrogenating agent in making intermediates; as photographic reagent. Grades—tech.; pure.

Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
†Amer Oxygen Service Corp, Harrison, N J	Pittsburgh Thermoline Co, Pittsburgh, Pa
†Linde Air Prods Co, N Y	†Stuart Oxygen Co, San Fran, Calif
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio	

DU PONT
REG. U.S. PAT. OFF.

PEROXIDES

Bleaching and Oxidizing Agents

HYDROGEN PEROXIDE — MAGNESIUM PEROXIDE
SODIUM PEROXIDE — CALCIUM PEROXIDE
SODIUM PERBORATE — ZINC PEROXIDE

E. I. DU PONT DE NEMOURS & CO. INC.
ELECTROCHEMICALS DEPARTMENT
WILMINGTON DELAWARE

HYDROGEN PEROXIDE (Hydrogen Dioxide, Perhydrol Peroxide, Ozogen Auricome)

H_2O_2. M.W. 34.02. Colorless liq. Sp. gr. anhydrous 1.4584. F.P. —2°C. B.P. 152.1°C. Miscible water, alcohol, ether. Uses—mfr. synthetic dyes, intermediates, organic chemicals, soaps; as antiseptic and disinfectant; bleaching, oxidizing and antiseptic agent for many purposes; general oxidizing agent in chemical processes; general food preservative and bleaching agent; bleach in photography; in removing traces of sulfur dioxide in bleaching fruits; bleaching flour, silk, wool, laces, ivory, straw, gelatin, wood, hair, bones, parchment, ostrich feathers, discolored teeth; preserving butter, milk, tanning extract and beer; tanning leather and disinfecting hides; refining and bleaching fats and oils; dyeing and printing textiles; sterilizing beer kegs and destroying growth in wort; electroplating reagent in metal solutions; bleaching and cleaning engravings; metal coloring; making sugar from starch; disinfecting drinking water and for sanitary purposes; in dentifrices and medicine. Grades—U.S.P. (10 vols.); tech. (10, 17, 25 and 100 vols.).

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Becco Sales Corp, Buffalo, N Y	Bedford 8300
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Buffalo Electro-Chem Co, Inc, Buffalo, N Y	Bedford 8300
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†Evans Chemetics, Inc, 250 E 43 St, N Y	Murray Hill 3-0071
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Maxim Chem Co, Inc, 44 Cliff St, N Y	Worth 4-0070
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200

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Butane	Ethylene Oxide	Nitrogen Dioxide
Butene 1	Ethylidene Fluoride	Nitrous Oxide
Butene 2	("Genetron 100")	Oxygen
Carbon Dioxide	Helium	Phosgene
Carbon Monoxide	Hydrogen	Propane
Chlorine	Hydrogen Bromide	Propylene
Chlorodifluoromethane ("Freon-22")	Hydrogen Chloride	Sulfur Dioxide
Cyclopropane	Hydrogen Fluoride	Sulfur Hexafluoride
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Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
Cohen, Harry, Atlanta, Ga	

HYDROGEN SULFIDE (Sulfuretted Hydrogen, Acid Hydrosulfuric, Hepatic Gas)

H_2S. Colorless gas, offensive odor. Density (air = 1) 1.189. Liquefies —85°C. B.P. —61.8°C. Sol. water, alcohol. Uses—mfr. intermediates; as chemical reagent in laboratory; in purification of sulfuric and hydrochloric acids; metallurgy of copper, gold and silver.

Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio	

HYDROQUINONE (Paradioxybenzene, Hydrochinone, Hydroquinol, Quinol, Parahydroxybenzene, Parahydroxyphenol)

$C_6H_4(OH)_2$. White, colorless cryst. Sp. gr. 1.330. M.P. 171°C. B.P. 285°C. Sol. water, alcohol, ether. Uses—mfr. intermediates, organic chemicals, synthetic dyes, drugs; as photographic developer. Grades—photographic; tech.; U.S.P.

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HYDROQUINONE (cont'd)

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
†Carus Chem Co Inc, Union & 8 Sts, La Salle, Ill — La Salle 1500
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Conray Prods Co, 510 5 Av, N Y — Oregon 5-2505
Fassy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif — Kimball 2214
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

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Hastings-on-Hudson, N.Y.

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†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000
Norman-Willets Co, Chicago, Ill — Wholesale Supply Co, Los Angeles, Calif

HYDROQUINONE MONOBENZYL ETHER

†Jorala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137
†Goodrich, B F, Chem Co, Cleveland, O

HYDROTROPIC ALDEHYDE

Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

p-HYDROXYBENZALDEHYDE

†Dow Chem Co, Midland, Mich — Midland 500
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550

p-HYDROXYBENZOIC ACID ESTERS

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

HYDROXYCITRONELLAL

$C_{10}H_{20}O$. M.W. 172. Faintly yellow, almost colorless liquid. B.P. 94-96° C. at 1mm. Uses: perfumery.

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Roure-Du Pont Inc, 366 Madison Av, N Y — Vanderbilt 6-5830
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
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Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
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Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530

p-HYDROXY DIPHENYLAMINE

C_6H_5-NH-C_6H_4OH. M.W. 169.12. Gray solid. M.P. 50°C. Insol. water, gasoline. Uses: stabilizer, antioxidant, polymerization inhibitor, intermediate in organic syntheses.

†Goodrich, B F, Chem Co, Cleveland, O

HYDROXYETHEL CELLULOSE

Exact chemical structure not yet determined. Snow-white, free-flowing powder. Sol. water. Uses: film-forming material, sizing agent, binder, thickener, and protective colloid in aqueous dispersions; adhesive for paper, wood and cloth; warp size for cellulose acetate, rayon, cotton; excellent carrier for pigments and dyes.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

n-HYDROXYETHYL MORPHOLINE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

HYDROXYL AMINE ACID SULFATE

†Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800

HYDROXYLAMINE HYDROCHLORIDE (Oxammonium Hydrochloride)

NH_2OHHCl. Colorless, hygroscopic cryst. M.P. 151°C. Decomposes on further heating. Sol. water, glycerol, alcohol. Uses—mfr. intermediates, organic chemicals; as photographic developer; in medicine. Grades—tech. and C.P.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

HYDROXYLAMINE SULFATE (Oxammonium Sulfate)

$(NH_2OH)_2SO_4$. M.W. 164.14. Colorless liq. Uses—strong reducing agent; precip. metals; powerful antiseptic; in bleaching; printing and dyeing; discharge of colors; developer in photography; oxidation inhibitor fatty acids. Grades—tech. solution.

†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

HYDROXYLAMMONIUM ACID SULFATE

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

HYDROXYLAMMONIUM CHLORIDE

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

HYDROXYLAMMONIUM SULFATE

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

2-HYDROXY-3-METHOXY-BENZALDEHYDE (o-VANILLIN)

$C_8H_8O_3$. M.W. 152.1. Yellowish crystalline solid. Uses—as antioxidant and as intermediate in chemical synthesis.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

o-HYDROXYPHENYLMERCURIC CHLORIDE (o-Chloromercuriphenol)

$C_6H_4(OH)HgCl$. M.W. 329.11. White to faint pink, fine crystals. Sol. hot water, alkali, alcohol. Uses: highly antiseptic fungicide; for control of blue stain and sap stain in freshly sawed lumber.

Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000

HYDROXYPYRUVIC ALDEHYDE

†Jovala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137

HYDROXYQUINOLINE SULFATE

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fishr Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

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Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Cheme Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9030
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Amer Pharmaceutical Co, N Y

ILMENITE (Menaccanite titanic iron ore)

FeO. TiO_2. Brownish-black. Sp. gr. 4.44-4.90. Hardness 5-6. Uses—puddling-furnace linings, titanium paints and enamels, ferrotitanium.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Orefraction, Inc, Pittsburgh, Pa

IMIDAZOLE

$C_3H_4N_2$. White prismatic needles. Sol. water, alcohols, benzene. Uses; medicine, reagent in testing blood constituents.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

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IMIDAZOLE (cont'd)

Hexagon Labs, Inc, 3536 Pearlree Av, Bronx, N Y — Fairbanks 4-7550
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

INDALONE

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

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INDICATORS ANALYTICAL

Solutions of dyes, which change color denoting passage from acidity to alkalinity or the reverse; substances which show the beginning or end of a chemical reaction; substances which indicate by color the pH of a solution.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Dr. A. E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8832
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
†Refort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

†Eastern Chem Corp, Newark, N J — Phipps & Bird, Inc, Richmond, Va

INDIGO

Coloring medium derived chiefly from Indigofera Tinctoria. Habitat—India, Java, Guatemala. Dark blue, odorless, tasteless pieces or powd. Sol. concentrated sulfuric acid. Now largely produced synthetically. Uses—in printing and dyeing.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Dow Chem Co, Midland, Mich — Midland 500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Ransom, L E, Co, N Y

INDIUM (Metal)

In. M.W. 114.8. A ductile trivalent metal of thealuminum subgroup with atomic number 49. It occurs in silver-gray crystalline masses, density 7.31. M.P. 155°C. It oxidizes readily above its melting point, burning with a brilliant violet flame at higher temperatures.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

†Amer Metal Co, Ltd, N Y — Indium Corp of Amer, N Y
†Amer Smelting & Refg Co, N Y — Mackay, A D, Inc, N Y
†Anaconda Copper Mining Co, N Y

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INDIUM OXIDE

In_2O_3. M.W. 277.52. Pale yellow salt. Uses: preparation of indium plating solution.

†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Indium Corp of Amer, N Y

INDIUM SULFATE

$In_2(SO_4)_3.9H_2O$. M.W. 679.84. White crystalline salt. Uses: preparation of indium plating solution.

†Amer Smelting & Refg Co, N Y — Indium Corp of Amer, N Y

INDOLE (Ketol, Benzopyrrol, Benzazol)

$CH:CHC_6H_4NH$. M.W. 117.06. Colorless to yellowish scales, intense fecal odor. M.P. 52°C. B.P. 254°C. Sol. alcohol, ether, hot water. Uses—mfr. synthetic jasmine and neroli oils; as reagent in chemical processes; in medicine. Grades—C.P.; tech.

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dow Chem Co, Midland, Mich — Midland 500
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Nerda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

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INOSITOL

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Staley, A E, Mfg Co, Decatur, Ill — 4141
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

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INTERMEDIATES

Chemicals employed in organic synthesis in the production of dyes, pharmaceuticals. They are produced from the "crudes" or raw materials derived usually from the "coking" processes.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000

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INTERMEDIATES (cont'd)

†Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Bernard Color & Chem Corp, 335 Hudson St, N Y	Watkins 4-5460
†Carwin Co, Stiles Lane, North Haven, Conn	New Haven 2-2161
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
Chemstar Inc, 40 Exchange Pl, N Y	Hanover 2-0564
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del	Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121

HIGH BOILING INTERMEDIATES
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- Crude Naphthalene
- Cresylic Acid
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†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†Fallek Prods Co Inc, 163 Bway, N Y	Barclay 7-7939
File Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
†Fisher Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-2587
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661

INTERMEDIATES

- Photographic Chemicals
- Aromatic Chemicals
- Flavor Chemicals
- Special Chemicals

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Acrolein
Allyl Alcohol
Allyl Chloride
Cyclohexane
Diallyl Ether
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RIDGEFIELD, NEW JERSEY

INTERMEDIATES (cont'd)

L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J	Prescott 7-5805
†National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2240
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland	
†Pfister Chem Wks, Linden Av, Ridgefield, N J	Pennsylvania 6-4891
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
†Sharples Chems Inc, Phila, Pa	Kingsley 5-2802

INTERMEDIATES

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†Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
†Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y	Lexington 2-5806
★†Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200
†Vitamins Inc, 809 W 5R St, Chicago, Ill	Normal 2727
†Winthrop-Stearns Inc, 1450 Bway, N Y	La 4-6400
Feinberg, B G, N Y	Sonnenschein, E, & Co, Inc, N Y
MacHale, A J, N Y	

INULIN

†Consolidated Midland Corp, Katonah, N Y	Katonah 1010

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ETHYL p-TOLUENE SULFONATE
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(Invertin, zymase) Enzyme from yeast, Hydrolyses sucrose into dextrose and levulose. Whitish powder. Sol. in water. Uses—Fermentation industries; production of alcohol from sugar.

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IODINE (Iodum)

Is. Purplish-black crystalline scales. Sp. gr. 4.98. M.P. 114.5°C. B.P. 184°C. Sol. alcohol, carbon bisulfide, chloroform, ether, glycerine, alkaline iodide solution; slightly sol. water. Uses—mfr. iodides, iodates, phthalein dyes, Rose Bengal, aniline green, erythrosin, eosin, cyanin, tincture of iodine, leather, photographic iodides, special soaps; as catalytic agent in making dyestuffs, intermediates, organic chemicals, pharmaceuticals, dimethylaniline, iodoform; laboratory reagent; germicide and antiseptic; in lithography; paper testing; staining fibers; process engraving; in medicine. Grades—U.S.P.; C.P.; crude; sublimed.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Dow Chem Co, Midland, Mich — Midland 500
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120

Bodman, F L, Inc, Phila, Pa — Siber, Hegner & Co, Inc, N Y
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IODINE MONOCHLORIDE

ICl. M.W. 162.38. Reddish brown, oily liq. Sp. gr. 3.1822. M.P. 27.2°C. B.P. 97.4°C. Decomposes on further heating. Sol. alcohol, dilute hydrochloric acid. Uses—mfr. intermediates, organic chemicals, synthetic dyes, drugs and perfumes; as laboratory reagent. Grades—tech.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

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City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

IODOBENZENE

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Jorala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

†Eastern Chem Corp, Newark, N J

IODOFORM (Triiodomethane, Formyl Triodide)

CHI_3. M.W. 393.77. Yellow lustrous scales or more or less cryst. powder. Disagre. odor. Sol. alcohol, chloroform, ether. Sltl. sol. water. M.P. 119° C. Uses—disinfectant; medicine.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600

IODOFORM (cont'd)

Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

IONONE

$C_{13}H_{20}O$. M.W. 192.33. Colorless liquid. Violet odor. Uses—perfumery.

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Maywood Chem Wks, 100 W Hunter Av, Maywood N J — Hackensack 2-2020
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Roure-Du Pont Inc, 366 Madison Av, N Y — Vanderbilt 6-5830
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

†Trubek Labs, Inc, E Rutherford, N J

IPECAC ROOT (Ipecacuanha, Cephaelis, Uraqoga

Dried root of Cephaelis Ipecacuanha. Habitat—Brazil, Bolivia. Uses—mfr. sweetmeats; as tanning agent; in medicine. Grades—U.S.P. Rio (Cephaelis Ipecacuanha); U.S.P. Carthagena (Cephaelis Acuminata); American (porterianthus Trifoliatus).

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
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Ir. White, hard, brittle, lustrous metal. Sp. gr. 22.42. M P 2440°C. Sol. aqua regia. Uses—in alloying metals.

Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill Randolph 6-0232

†Amer Metal Co, Ltd, N Y — Hagstoz, T B, & Son, Phila, Pa
Baker & Co, Inc, Newark, N J — Mackay, A D, Inc, N Y

IRON (Iron Reduced, Ferrum Reductum)—see also Filings

Fe. Fine, amorp. powd. Uses—as tonic; in medicine and organic syn-

Carbonyl Iron Powders

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thonia. Grades—gray 90%; tech.; U.S.P.

Antara Prods, Gen Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Lo Bue, Philip J, Co, 250 Park Av, N Y — Murray Hill 9-0060
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Metals Refg Co, Hammond, Ind — †Williams, C K, & Co, E St Louis, Ill

IRON & AMMONIUM CITRATE (Ferric Ammonium Citrate, Ammonioferric Citrate)

$(NH_4)(Fe)(C_6H_5O_7)_2$. Reddish-brown, deliq., crystalline scales. Sol. water. Uses—as tonic; in medicine; mfr. blue-print paper. Grades—U.S.P.; brown scales; green scales.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Schuylkill Chem Co, Phila, Pa

IRON & AMMONIUM OXALATE (Ferric Ammonium Oxalate, Ammonioferric Oxalate)

$(NH_4)_3Fe(C_2O_4)_3.3H_2O$. Green cryst. Sp. gr. 1.7785 (17.5°C.). Loses water at 100°C. Sol. water. Uses—mfr. blueprint paper. Grades—tech.; C.P.

OXALATES

- IRON & AMMONIUM OXALATE
- IRON & POTASSIUM OXALATE
- IRON & SODIUM OXALATE
- AMMONIUM OXALATE TECHNICAL
- IRON OXALATE GRANULAR
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†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

IRON & AMMONIUM SULFATE (Ferric Ammonium Sulfite, Ferric Ammonium Alum, Ammonioferric Sulfate)—see also Ferrous Ammonium Sulfate

$(NH_4)Fe(SO_4)_2 12H_2O$. Lilac to violet, efflorescent cryst. Sp. gr. 1.712. Loses water on heating. Sol. water. Uses—as mordant in dyeing and printing textiles; laboratory reagent; for metallurgical purposes; in medicine. Grades—tech.; C.P.; U.S.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

IRON CITRATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

IRON FORMATE

$Fe(CHO_2)_3$. M.W. 190.89. Red crystals. Sol. water; slightly sol. alcohol. Uses: reagent.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330

IRON GLYCEROPHOSPHATE

$Fe_2[C_3H_5(OH)_2PO_4]_3$. M.W. 621.96. A yellow powder. Soluble in H_2O, insoluble alcohol. Official in N.F. VI. Uses—pharmaceutical.

IRON GLYCEROPHOSPHATE (cont'd)

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

IRON NAPHTHENATE

M.W. about 520. 10% metal. Dark brown solid. Sol. hydrocarbons. Uses: paint dryer; curing core oils.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Ferro Chem Corp, Bedford, O — †Industrial Lining Engrs, Inc, Pittsburgh, Pa

IRON OXALATE GRANULAR (FERRIC)

Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

IRON OXIDE (Ferrosoferric Oxide, Magnetic Iron Oxide, Black Rouge, Iron Ethiops)

Fe_3O_4. H_2O. Reddish-black amorp. powd. Sp. gr. 5.16. M.P. 3538°C. Sol. acids. Uses—mfr. ceramic enamels, polishing and match lead compositions; as paint, varnish, linoleum, oilcloth pigment; in coloring glass, paper and textiles; in metallurgy. Grades—tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Firstaline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill3-8350
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Amer Pigment Corp, Pulaski, Va
Grund, Henry L, Inc, Cleveland, O
†Landers-Segal Color Co, Bklyn, N Y
Martin Hoyt & Milne, San Fran, Calif
†Reardon Industries, Cincinnati, O
Tabler, Wm B, Co, Louisville, Ky
†Williams, C K, & Co, E St Louis, Ill

PRINCE MANUFACTURING COMPANY

Bowmanstown, Pennsylvania

Established 1858

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IRON OXIDE

Natural and Synthetic

Red, Yellow, Brown and Black

IRON OXIDE, BROWN (Ferric Oxide, Brown Iron, Iron Subcarbonate, Precipitated Iron Carbonate)

Fe_2O_3. Reddish-brown, amorp. powd. Variable constants. Sol. acids. Uses—mfr. green colored glass; paint and varnish pigment; pigment in making oilcloth and linoleum; coloring wall-paper; in compounding rubber. Grades—tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Firstaline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201

IRON OXIDE, BROWN (cont'd)

Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa	Rittenhouse 6-3874
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Binney & Smith Co, 41 E 42 St, N Y	Murray Hill 2-1960
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
†Mineral Pigments Corp, Muirkirk, Md	Laurel 454
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa	Palmerton 3172
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

†Amer Pigment Corp, Pulaski, Va	Osborn, C J, Co, N Y
Egleston, Wm D, Co, Cambridge, Mass	†Smith, J Lee, & Co, Inc, N Y
Mtns Mining Co, Seattle, Wash	†Williams, C K, & Co, E St Louis, Ill

Colors

Phthalocyanine Blue
D. & C. Cosmetic - Lo-Micron
C. P. Red Iron Oxide

Whittaker, Clark & Daniels, INC.
260 West Broadway, New York 13, N. Y.

IRON OXIDE, RED (Red Oxide, Jeweler's Rouge, Venetian Red, Polishing Crocus, Rubigo, Ferric Oxide, Indian Red, Crocus Martis Adstringens, Red Iron Trioxide, Iron Sesquioxide, Ferric Trioxide, Purple Oxide, Red Stone, Colothar, Red Bole, Bole, Armenian Bole, Caput Mortuum, English Red, Angel Red, Chemical Red, Pompeian Red, Persian Red, Raddle, Reddle, Red Rudd, Red Ochre, Red Chalk, Red Earth, Prussian Red, Italian Red, Terra di Sienna, Mineral Rouge, Blood Red, Pale Oxide of Iron, Iron Saffron, Imperial Red, Nuremberg Red, Scarlet Red, Prague Red Sinopis, Lemnos Earth, Van Dyke Red, Spanish Oxide, Turkey Red, Bright Red Oxide, Precipitated Red Oxide, Mars Red, Rouge de Mars, Pompey Red)

Fe_2O_3. Fe_2O_3, 96-98%, balance $CaSO_4$. Dark red, crystalline powd. Natural and manufactured. Mfr. precipitated yellow oxide is calcined at temperatures 500-1000°F. depending upon shade required. Sp. gr. 5.12-24. M.P. 1565°C. Sol. acids. Uses—mfr. mineral colors; theatrical rouge and grease paints; in purifying coal gas; polishing preparations for metals, jewelry, precious stones, potteries, porcelains, ceramic enamels, refractories, green glass and polishing glass; as source of iron; mordant in dyeing textiles; laboratory reagent; catalyst in chemical processes; pigment in oilcloth, linoleum, paints, rubber goods and wall papers; in medicine. Grades—tech.; iron oxide contents.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa	Rittenhouse 6-3874
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Binney & Smith Co, 41 E 42 St, N Y	Murray Hill 2-1960
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
Dalton-Cooper Inc, 200 W 34 St, N Y	Longacre 4-2910
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y	Murray Hill 3-8350
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
†Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†Mineral Pigments Corp, Muirkirk, Md	Laurel 454
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa	Palmerton 3172
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y	Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

†Amer Pigment Corp, Pulaski, Va	Georgia Peruvian Ochre Co, N Y
Clinton Metallic Paint Co, Clinton, N Y	Grund, Henry L, Inc, Cleveland, O
Egleston, Wm D, Co, Cambridge, Mass	Hardy, Charles, Inc, N Y

IRON OXIDE, RED (cont'd)

McNulty, Joseph A, N Y	Siber, Hegner & Co, Inc, N Y
Osborn, C J, Co, N Y	†Smith, J Lee, & Co, Inc, N Y
Porter Warner Industries, Inc, Chattanooga, Tenn	Ulrich Chem Co, Indianapolis, Ind
	†Williams, C K, & Co, E St Louis, Ill

IRON OXIDE, YELLOW (Precipitated Yellow Oxide, Yellow Oxide, Ferrite Yellow, Mars Yellow, Jaune de Mars)

$Fe_2O_3.3H_2O + CaSO_4$; Fe_2O_3. 78-86%, calcium sulfate 2-12%. Combined water, approx. 12%. Mfr. ferrous hydroxide is precipitated from iron sulfate or chloride by lime or caustic soda. Ferrous hydroxide is oxidized to yellow hydrated ferric oxid by agitation with air. Bright yellow to brown. Uses—in pigments. Grades—tech., based on iron oxide content.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa	Rittenhouse 6-3874
Binney & Smith Co, 41 E 42 St, N Y	Murray Hill 2-1960
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Col	Tabor 0251
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
†Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†Mineral Pigments Corp, Muirkirk, Md	Laurel 454
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa	Palmerton 3172
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

†Amer Pigment Corp, Pulaski, Va	Osborn, C J, Co, N Y
Georgia Peruvian Ochre Co, N Y	†Smith, J Lee, & Co, Inc, N Y
Grund, Henry L, Inc, Cleveland, O	†Williams, C K, & Co, E St Louis, Ill

IRON PENTACARBONYL

Antara Prods, Gen Aniline & Film Corp, 444 Madison Av, N Y	Plaza 9-8540
Mackay, A D, Inc, N Y	

IRON

pentacarbonyl

$Fe(CO)_5$—viscid, yellow liquid. S. G. 1.466 at 18°C. B. P. 102.8° C. (749 mm.). Soluble in nickel tetracarbonyl and in most organic solvents. Insoluble in water. Recommended to researchers in organic synthesis work. Produced at Grasselli, N.J., and Huntsville, Ala., plants.

ANTARA® PRODUCTS

GENERAL ANILINE & FILM CORPORATION

444 MADISON AVENUE, NEW YORK 22, N. Y.

IRON PERCHLORIDE—see Ferric Chloride

IRON PHOSPHATE

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†City Chem Corp, 132 W 22 St, N Y	Watkins 9-2725
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
†Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541
†Schuylkill Chem Co, Phila, Pa	

IRON & POTASSIUM OXALATE (Potassium Ferric Oxalate)

$K_3Fe(C_2O_4)_3.3H_2O$. M.W. 491.19. Olive brown cryst. Decomposes on heating. Uses—mfr. blue-print paper. Grades—tech.

†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

IRON PYROPHOSPHATE

$Fe_4(P_2O_7)_3.9H_2O$. M.W. 907.63. Yellowish-white powder. Sol. in acids and carbonated water. Grades—technical; N.F. Uses—medicine. Containers—glass bottles. Shipping regulations—none.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

IRON RESINATE (Ferric Resinate)

Reddish-brown powder. Uses: as drier for paints, varnishes, etc.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Meyer, J. & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
†Strosen-Reuter, Fred'k A, Inc, 2115 Medill Av, Chicago, Ill — Humboldt 1552

IRON & SODIUM OXALATE (Ferric-Sodium Oxalate)

$2Na_3Fe(C_2O_4)_3.9H_2O$. M.W. 939.8. Emerald green cryst. Sp. gr. 1.9731 (17.5°C.). Loses water at 100°C. Sol. water. Uses—mfr. blue-print paper. Grades—tech.

†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

IRON STEARATE

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653
Le Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
†Parsons, H W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

ISINGLASS (Ichthyocolla, Fish Glue)

White, solid amorp. Prepared from swimming bladders of fish. Uses—mfr. adhesive compositions, leather and glass cements, court plaster; as clarifying agent in treating malt vinegar, beer, wines, cider, etc.; general protective colloid; in thickening soups, jellies; sweetmeats, milk preparations, confectionery, baked products; finishing silk; waterproofing fabrics; dyeing and printing inks. Grades—tech.

Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Burtonite Co, Nutley, N J — Heyman, N H, Inc, N Y
Dehls & Stein, Inc, Newark, N J

ISO AMYL ACID PYROPHOSPHATE

$[(CH_3)_2CHCH_2CH_2]_2H_2P_2O_7$. M.W. 320.27. Liquid.

†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

ISOBORNYL ACETATE

Colorless liq. with pine-needle odor. B.P. 220-224°C. Sp. gr. 0.978 at 20°C. Uses—compounding toilet waters, bath preparations, antiseptics, theatre sprays, soaps, etc.

Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ISOBUTANE (Trimethylmethane)

$(CH_3)_3CH$. A colorless gas. M.W. 58.08. F.P. —145°C. B.P. —11°C. Insol. water; sol. alcohol, ether. Uses—in illuminating gas; chemical synthesis.

Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio

ISOBUTYL ACETATE

$CH_3COO.C_4H_9$. M.W. 116.09. Colorless liq. Sp. gr. 0.871. B.P. 118.3°C. Sol. alcohol, ether; slightly sol. water. Uses—solvent and plasticizer in cellulose ester plastics and lacquers. Grades—tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

ISOBUTYL-p-AMINOBENZOATE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†Jorala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137
†Purocaine, Inc, N Y — †Richmond Chem Corp, Staten Is, N Y

ISOBUTYL BENZOATE

$C_6H_5COOC_4H_9$. Colorless liq. Sp. gr. 1.002. B.P. 237°C. Sol. alcohol, ether. Uses—plasticizer for plastics; in medicine.

Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Maywood Chem Wks, 100 W Hunter Av, Maywood N J — Hackensack 2-2020
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ISO BUTYL BROMIDE (1-Bromo-2-Methylpropane)

$(CH_3)_2CHCH_2Br$. M.W. 137. Clear, colorless liquid. Completely miscible. Very sol. water; sol. alcohol, chloroform. Uses: medicine. Soluble with common organic solvents; insol. water. Uses: in organic syntheses, particularly as source of isobutyl radical.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Le Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

ISOBUTYL BUTYRATE

Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ISOBUTYL CAPROATE

Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ISOBUTYL CARBINOL—see Alcohol Amyl

ISOBUTYL ISO BUTYRATE

Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000

ISOBUTYL METHACRYLATE

Water white, mobile, volatile liquid with pronounced agreeable odor.

†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121

ISOBUTYL PROPIONATE

$CH_3CH_2COOCH_2CH(CH_3)_2$. Water-white liq. B.P. 138°C.; F.P. 71.4°C.; Sp. gr. 0.86-0.8635 at 20/20°C. Uses—solvent for lacquers, paints, varnish.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000

ISOBUTYL SALICYLATE

$HOC_6H_4COOC_4H_9$. Clear liquid, may have slightly yellowish tinge. Sp. gr. 1.064-1.065 at 25°C. Contains 99-100% ester. Uses—perfumery.

Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Maywood Chem Wks, 100 W Hunter Av, Maywood N J — Hackensack 2-2020
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ISOBUTYLENE (2-Methyl-propene-1)

$(CH_3)_2C:CH_2$. M.W. 56.10. Colorless gas. B.P. —6°C.

†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

ISOBUTYRALDEHYDE

$(CH_3)_2CH.CHO$. B.P. 64.5°C.; F.P. —65.9°C.; Sp. gr. 0.794 at 15.6/15.6°C. Uses—as an intermediate mfr. rubber accelaters, synthetic resins. In the synthesis of isobutyric acid and acetals.

†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-3957

ISOEUGENOL

$C_6H_3(C_3H_5)(OCH_3)OH$. M.W. 164. Viscous liquid, colorless or pale yellow; clove odor. Uses: medicinal; perfumery.

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110

ISOEUGENOL (cont'd)

†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

ISOHEPTANE

Fraction hydrocarbon mfg. from natural gas. API gravity, 68.7. B.R. 185-196. Uses: formulation of lacquers; mfg. of rubber cements, adhesives, tires; in mfg. of artificial leather, rotogravure inks; chemical intermediate.

Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

ISOHEPTENE

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

ISOHEXANE

Very light fraction hydrocarbon mfg. from natural gas. API gravity, 80.2. B.R. 135-145. Uses: in extraction of oil from oil seeds; chemical intermediate; in rubber cements and adhesives.

Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

ISOLEUCINE

$(H_2NCHCH(C_2H_5)CH_3)COOH$. M.W. 131.1. Amino acid present in certain protein foods, required in human nutrition for growth and maintenance of health, weight and nitrogen balance.

Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400

ISOOCTANE

†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

ISOOCTENE

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

ISO-PENTANE (2-Methylbutane)

$(CH_3)_2CHC_2H_5$. M.W. 72.09. Tech. grade from natural gas. Colorless liq. Boiling range 26-30°C. Sp. gr. .624. Uses—organic synthesis, organic analysis, preparation reagents, solvents.

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

†Skelly Oil Co, Kansas City, Mo

ISOPHORONE

$C_9H_{14}O$. M.W. 138.20. Liquid of irritating, somewhat toxic odor, most organic solvents, including gasoline. Wt. per gal., 7.68 lbs. at 20° C. Uses—solvent for various oils, fats, resins and gums; intermediate in mfr. plasticizers, flotation agents, rubber chemicals, etc. Grade—at least 98.0% isophorone by weight; not more than 0.02% B.P., in the range 205-220° C. Sp. gr. 0.9227 at 20/20° C. Sol. in acetic acid; color, less than 0.05 gm. $K_2Cr_2O_7$ per liter of water.

C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

ISOPRENE

C_5H_8. M.W. 68.06. Density at 20°C. 0.6805. M.P. —146.8°C. B.P. 34.07; n 20/D 1.42160. Uses—synthetic rubber, resins, chemical intermediate. Available in form of fractions containing approximately 70% isoprene.

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

ISOPROPANOL—see Alcohol Isopropyl

ISOPROPYL ACETATE

$CH_3COO.CH(CH_3)_2$. Colorless liq. Sp. gr. .870-.875 (20/20°C.). B.P. 86-90°C. Weight per gal., 7.27 lbs. Sol. alcohol, ether; slightly sol. water. Uses—mfr. organic chemicals; solvent cellulose lacquers and plastics; waterproof cements. Grades—tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0061
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chemstar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Dreyer, P R, Inc, 115 W 19 St — Watkins 9-1570
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Stoney-Mueller Inc, Page & Newark Ays, Lyndhurst, N J — Rutherford 2-7420
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
Wilkoff, David L, Co, N Y

ISOPROPYL AMINE

$CH_3CH(NH_2)CH_3$. M.W. 59.1. Water-white liquid. Flash-point .56°C. B.P. 31.9°C. M.P. 101.2°C. Sp. gr. 0.686 at 25°C./4°C. Miscible with water, alcohol, ether. Uses—chemical synthesis, dehairing agent, surface active agents, cleaning compounds.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

ISOPROPYL BENZENE

$C_6H_5(C_3H_7)$. B.P. range, 151.0-153.9°C. at 760 mm.; Sp. gr. 0.8640 at 25/25°C.; dielectric constant 2.26; flash pt. 32°C.; fire pt. 45°C. Uses—solvent, intermediate.

†Dow Chem Co, Midland, Mich — Midland 500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

ISOPROPYL BROMIDE

$(CH_3)_2CHBr$. Colorless liq. Sp. gr. 1.310. B.P. 59.6°C. Insol. water. Sol. alcohol, ether. Uses—organic synthesis, pharmaceuticals. Grades—pure, tech.

†Dow Chem Co, Midland, Mich — Midland 500
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Le Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

ISOPROPYL CHLORIDE

$(CH_3)_2CH.Cl$. M.W. 78.51. Water-white liq. Sp. gr. approx. .860 at 20°C. B.P. 36.5° C. Uses—organic synthesis.

†Dow Chem Co, Midland, Mich — Midland 500
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

ISOPROPYL 2,4-DICHLOROPHENOXYACETATE

†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

ISOPROPYL FORMATE

†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

ISOPROPYL IODIDE

$(CH_3)_2CHI$. Colorless liq. Sp. gr. 1.703. B.P. 89.5°C. Insol. water; sol. alcohol, ether. Uses—organic synthesis, pharmaceuticals. Grades—pure, tech.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

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Union Carbide and Carbon Corporation
30 East 42nd Street UCC New York 17, N. Y.

Offices in Principal Cities

ISOPROPYL LAURATE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

ISOPROPYL PALMITATE

$C_{15}H_{31}COOCH(CH_3)_2$. M.W. 300. Colorless liquid. Sol. alcohol, ether; insol. water. Use: skin lotions.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

ISOPROPYL PHENOL

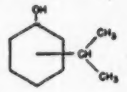
C_6H_5-C_6H_4OH. M.W. 136.2. Water-white to light tan mobile liquid. Sol. ethanol, benzene, 10% sodium hydroxide; insol. water. Uses: production of agricultural chemicals, lubricating oil additives, phenolic resins, rubber chemicals; as high-boiling phenolic solvent.

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240

KOPPERS

Isopropyl Phenol

USES: Suggested for use in oil-soluble phenolic resins, lubricating-oil additives, plasticizers, rubber chemicals, pharmaceuticals, agricultural chemicals, petroleum refining, and dyestuff intermediates.



KOPPERS COMPANY, INC.
CHEMICAL DIVISION
Pittsburgh 19, Pa.

ISOPROPYL-n-PHENYLCARBAMATE

C_6H_5-$NHCOOCH(CH_3)_2$. M.W. 179.10. White to grey crystalline needles. Camphor odor. Sol. alcohol, acetone, isopropyl alcohol; slightly sol. water. Uses: highly selective herbicide for monocotyledonous plants; control of weeding grasses.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
†Stanetal Corp, Linden, N J

ISOPROPYL ETHER—see Ether Isopropyl

ISOPROPYL 2,4,5-TRICHLOROPHENOXYACETATE

Michigan Chem Corp, St. Louis, Michigan — 41
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

p,p'-ISOPROPYLIDENE BISPHENOL

$(HOC_6H_4)_2C(CH_3)_2$. M.W. 228.1. Tan to brown, crystalline solid having a mild, phenolic odor. B.P. about 220°C (4 mm.). Decomposes above 8 mm. pressure, when heated above 220°C. Freezing pt. 150-153°C. Insol. in water; sol. in cold, dil. alkali, alcohol, and carbon tetrachloride. Uses—mfr. phenolic resins.

†Dow Chem Co, Midland, Mich — Midland 500

ISOQUINOLINE

C_9H_7N. M.W. 129.16. Sp. gr. 1.099 at 20°C. M.P. 24.6. B.P. 240.5 at 763 mm. Slightly soluble water.

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

ISOVALERYLALDEHYDE

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

ITANCONIC ANHYDRIDE

†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

KAOLIN—see China Clay

KAPOK

The hair of the fruit of the kapok and bombax trees. Use—upholstering purposes and for filling lifebelts.

Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800
Internatio-Rotterdam, Inc, N Y

KERATIN

$C_{81}H_{131}O_{34}N_{18}S$. Protein derived from hoofs, horns, shells, etc. Yellowish-brown powder. Insol. in water, alcohol, ether, dil. acids; sol. in glacial acetic acid, ammonia water. Uses—Coating "enteric" pills.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230

KIESEL GUHR—see Diatomaceous Earth

KRYPTON

Kr. At. Wt. 83.7. Rare inert gas. Uses—electrical luminescent tubes.

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For description and uses see Carbon Black. Grades—various.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Martin, L, Co, Inc, 41 E 42 St, N Y — Vanderbilt 6-2300
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Cole & De Graf, San Fran, Calif
†Deuts, Theodore H, Co, Bklyn, N Y
†Gen Carbon Co, Los Angeles, Calif
Jensen & McClelland, Chicago, Ill
Moser, George, & Son, Inc, Detroit, Mich
†Murray-Williams Color & Chem Co, Maplewood, N J
Osgood, D H, Co, Detroit, Mich
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Purified grease from sheep's wool. White or slightly colored amorp., slight odor. Natural. Slightly sol. alcohol. Sol. ether, chloroform.

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Beeswax	Estrone USP	2,4-Dinitrophenyl-hydrazine
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	Collidine, Pure	Heavy Chemicals, for Cosmetic Use

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Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712

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Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 9-2670
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756

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Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900

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†Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Malmstrom, N I, & Co, 147 Lombardy St, Bklyn, N Y	Evergreen 8-7626
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y	Beekman 3-3162
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
†Robinson-Wagner Co, 110 E 42 St, N Y	Murray Hill 3-1184
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Rosenthal-Barcow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoonewaidt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

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Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

†Blum, Paul, Co, Buffalo, N Y
Bodman, F L, Inc, Phila, Pa
Osborne, E Dewitt, N Y
Hardy, M W, & Co, Inc, N Y
†Lanaetex Prods, Inc, Elizabeth, N J
McNerney Chem Corp, Los Angeles, Calif
Martin Hoyt & Milne, San Fran, Calif
Palmer Supplies Co, Cleveland, O
†Shields, Thomas J, Co, N Y

LANOSTEROL

†Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184

LANTHANUM OXIDE

La_2O_3. Mol. wt. 325.84. White powder; true density, 6.51; bulk density, 1.2; melting pt. 2315°C.; boiling pt. 4200°C. Sol. in dilute acids; partially converted to carbonate in air; also absorbs moisture. Use: Manufacture of high index optical glass.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

Mackay, A D, Inc, N Y
Var-Lac-Oid Chem Co, N Y

LARD

Adeps, Axungia Porci. Purified internal fat from abdomen of the hog. Soft, white, unctuous mass; slight characteristic odor, bland taste. Sp. Gr. .0917. Melts 36-42°; insol. in water; sol. benzine, chloroform, ether, petrol, benzin. Use—emollient; in manuf. ointments.

Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996

Frey & Co, N Y

LATEX (Natural Water Dispersions of Rubber)

The liquid secretion of the hevea tree. Grades—Normal (38-40%) Latex, concentrated (60-72%) Latex.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800

†Gen Latex & Chem Corp, Cambridge, Mass

LAUROYL CHLORIDE

Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756

†Emulsol Corp, Chicago, Ill

LAUROYL PEROXIDE (Dodecanoyl Peroxide)

$(C_{11}H_{23}CO)_2O_2$. White, coarse powder. M.P. 48-50°C. Uses—Bleaching agent for fats, oils, and waxes; polymerization catalyst.

†Lucidol Div, Novadel-Agene Corp, 1740 Military Rd, Buffalo, N Y — Victoria 1740

LAURYL BROMIDE (Dodecyl Bromide)

$CH_3(CH_2)_{10}CH_2Br$. M.W. 249.2. Colorless liquid.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

LAURYL CHLORIDE

$C_{12}H_{25}Cl$. approx. M.W. 312. approx. Insol. water; sol. organic solvents; Use: production of esters for plasticisers.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

LAURYL ISOQUINOLINIUM BROMIDE

†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700

LAURYL MERCAPTAN

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

LAURYL PYRIDINIUM CHLORIDE

$C_5N_5NC_{12}H_{25}Cl$. Mol. wt. 283.4. Yellow-gray semisolid. Uses—cationic detergent in rayon industry. Manufacture of bactericidal and germicidal solutions.

Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

†National Biochemical Co, Chicago, Ill

LEAD, (Metal Plumbum)

Pb. Gray solid metal. Sp. gr. 11.33. M.P. 327.4°C. B.P. 1613°C. Sol. nitric acid; insol. water. Uses—mfr. lead pigments, lead salts, white lead, storage batteries, alloys, solders; anodes for chrome plating; linings for apparatus.

LEAD (cont'd)

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490

†Anaconda Copper Mining Co, N Y
†Eagle Picher Co, Cincinnati, O
†Federated Metals Div, N Y
Gitlan, Charles, & Co, Inc, N Y
†Kirk, Morris P, & Son, Inc, Los Angeles, Calif
†Metals Refg Co, Hammond, Ind
†Northwest Lead Co, Seattle, Wash
†U S Smelting Refg & Mining Co, N Y

LEAD ACETATE (Sugar of Lead, Goulard's Powder, Plumbous Acetate)

$Pb(C_2H_3COO)_2 + 3H_2O$. White or brown cryst. or powd. Sp. gr. 2.50. Loses water at 75°C. B.P. 280°C. Sol. water. Uses—mfr. lead salts, alum mordants, lead driers, lead resinate, lead arsenate, lead oleate, dry colors, printing inks, paper, chrome red and chrome orange pigments, chrome yellow; as clarifying agent; lead plating; antique effects on metals; mordant in dyeing and printing textiles; indigo resist; laboratory reagent; drier in paints and varnishes; in weighting silks; waterproofing textiles; refining sugar and sugar juices; in medicine. Grades—U.S.P.; C.P.; brown; white; powd.; cryst.; cakes. (1 lb.); cartons (1, 5 lbs.); bottles (¼, 1, 5 lbs.).

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

†Euston Lead Co, Scranton, Pa

Baker's chemicals

MANUFACTURED BY J.T. BAKER CHEMICAL CO. FINE CHEMICALS

LEAD SALTS

LEAD ACETATE, Tech. & U.S.P.

LEAD NITRATE, 99-100%

J. T. BAKER CHEMICAL CO.
PHILLIPSBURG, N. J.
New York Philadelphia Chicago

LEAD ACETATE BASIC (Dibasic Lead Acetate, Lead Subacetate)

$Pb(C_2H_3O_2)_2$—$2Pb(OH)_2$. Heavy, white powd. Sol. water; almost insol. alcohol. Uses—in sugar analysis; clarifying and decolorizing solutions.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

LEAD ANTIMONIATE (Antimony Yellow, Paris Yellow, Naples Yellow, Giallioline, Plumbous Stibnate)

$Pb_3(SbO_4)_2$. M.W. 907.74. Orange-yellow powd. Sp. gr. 4.60-4.76. Sol. water. Uses—mfr. porcelains, potteries; as paint pigment; in staining glass. Grades—tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Fezandie & Sperrle, Inc, 205 Fulton St, N Y — Cortlandt 7-1460

LEAD ARSENATE (Plumbous Arsenate)

$Pb_3(AsO_4)_2$. M.W. 899.52. White, crystalline powd. Sp. gr. 7.30. Decomposes on heating. Sol. nitric acid. Highly poisonous. Uses—as insecticide and ingredient of various insecticidal preparations. Grades—tech. (50% paste, powd.); C.P.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Firestoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 5360
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
†Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Corona Chem Div, Milwaukee, Wisc — Pearson Ferguson Chem Co,
Niagara Chem Div, Food Machy & Chem Corp, Middleport, N Y — Kansas City, Mo

LEAD BORATE (Plumbous Borate, Lead Drier)

$Pb(BO_2)_2.H_2O$. White powd. Sp. gr. 5.598. Melts at red heat. Sol. dilute nitric acid. Uses—mfr. leaded glass, waterproof paints, galvano-plastics; as paint and varnish drier; in coatings on glass, potteries, etc; flux; enamel frit. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206

LEAD BROMIDE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

LEAD CARBONATE

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Fezandie & Sperrle, Inc, 205 Fulton St, N Y — Cortlandt 7-1460
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Associated Lead & Zinc Co, Seattle, Wash
†Eagle Picher Co, Cincinnati, O
†Euston Lead Co, Scranton, Pa
†MacGregor, John R, Lead Co, Chicago, Ill

LEAD CHLORIDE (Plumbous Chloride)

PbCl₂. M.W. 278.1. Colorless, rhombic crystals. Insol. in water; very slightly sol. in boiling water. Uses—reagent for separation alkaloids, silver ion, and carbonate ion; mixed with lead oxides as pigment material.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600

†Jordan Co, Chicago, Ill

LEAD CHROMATE (Leipzig Yellow, Chrome Yellow, Plumbous Chromate, Paris Yellow)

$PbCrO_4$. M.W. 323.23. Fusible cryst. Sp. gr. 6.123. M.P. 844. Sol. acids. Uses—as pigment paints, varnishes, coloring paper; oxidizing agent in chemical processes; ingredient of match head compositions; in coloring porcelains and potteries. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Eakins, J B & W B, Inc, Bklyn, N Y
†Western Dry Color Co, Chicago, Ill

LEAD 2-ETHYLHEXOATE

†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1582

†Argus Chem Lab, Inc, Bklyn, N Y
†Mooney Chems, Inc, Cleveland, O

LEAD FLUOBORATE

$Pb(BF_4)_2$. Used as a lead plating solution.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

LEAD FLUORIDE (Plumbous Fluoride)

PbF_2. M.W. 245.2. Den. 8.241. Fusible white powd.; insol. water. Uses—as a constituent of fluxes; as a reducing and desulfurizing agent.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

LEAD FOIL

Lead in coils or sheets, produced plain or lacquered. Uses—for wrappers, liners, etc.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
†Johnston Foil Mfg Co, St Louis, Mo — Wholesale Supply Co, Los Angeles, Calif

LEAD

ALL VIRGIN BRANDS

CHEMICAL—CORRODING—DE-SILVERED

ALLOYS	DUST	POWDER	TEST
ANODES	FOIL	RIBBON	TUBING
BARS	GRANULAR	SHEET	WASHERS
BLOCK	MOSSY	SHOT	WIRE
CASTINGS	PIG	SILVER RODS	WOOL
CAULKING	PIPE	STRIP	

Putting Mettle into Metals Since 1896

BELMONT

SMELTING & REFINING WORKS, Inc.

322 Belmont Avenue Brooklyn 7, N.Y.

Telephone—Dickens 2-4900 Established 1896

LEAD FORMATE

$Pb(CHO_2)_2$. Brownish-white crystalline substance.

Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
†Trojan Powder Co, Allentown, Pa — 45201

Lead Formate

PRIOR CHEMICAL CORPORATION

420 LEXINGTON AVENUE

NEW YORK 17, N. Y.

LEAD HYPOSULFITE (Lead Thiosulfate, Plumbous Thiosulfate)

PbS_2O_3. White amorp. powd. Decomposes on heating. Sol. acids and sodium thiosulfate solution. Insol. water. Uses—mfr. match head compositions; in inorganic analysis and synthesis; in medicine. Grades—tech.

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

LEAD IODIDE (Plumbous Iodide)

PbI_2. M. W. 461.06. Golden yellow cryst. or powd. Sp. gr. 6.16. M.P. 398-402°C. B.P. 861-964°C. Sol. potassium iodide and sodium acetate solutions. Uses—bronzing and coloring metals; in printing, photography and medicine. Grades—N.F.; C.P.; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Pure Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

LEAD LINOLEATE (Lead Plaster, Plumbous Linoleate)

$Pb(C_{18}H_{32}O_2)_2$. Yellowish-white, amorp. paste. Sol. acids. Uses—mfr. printing inks, dry colors; drier in paints and varnishes; in medicine. Grades—tech.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

Lead NAPHTHENATE
Lead LINOLEATE
Lead OCTOATE
Fred'k A. Stresen-Reuter, Inc.
TELEPHONES HUMBOLDT 1552-1553
2113 MEDILL AVENUE • CHICAGO 47, ILLINOIS

LEAD NAPHTHENATE

34-40% lead. Amber colored, sticky plastic solid. Uses—as a paint, enamel drier; in extreme pressure lubricants.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
†Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Allan, Homer G, St. Louis, Mo
Cole & De Graf, San Fran, Calif
†Ferro Chem Corp, Bedford, O
†Industrial Lining Engrs, Inc, Pittsburgh, Pa
†Mooney Chems, Inc, Cleveland, O

LEAD NITRATE (Plumbous Nitrate)

$Pb(NO_3)_2$. M.W. 331.24. Colorless cryst. Sp. gr. 4.53. M.P. decomposes at 357°C. Sol. water, alcohol. Uses—mfr. lead salts, lead mordants, paints, dry colors, match head and explosive compositions, paint pigments; mordant for staining mother-of-pearl, dyeing textiles and in calico printing; sensitizing agent in photography, process engraving and lithography; oxidizing agent in making synthetic dyes; decolorizing sugar; tanning leather; in medicine. Grades—C.P.; pure tech.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430

†Barium & Chems, Inc, Willoughby, O

LEAD OLEATE (Plumbous Oleate)

$Pb(C_{18}H_{33}O_2)_2$. White, fatty, amorp. granules. Sol. alcohol, ether, turpentine, benzene. Uses—drier in paints, varnishes, lacquers. Grades—tech.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Mooney Chems, Inc, Cleveland, O

LEAD OXIDE, RED (Red Lead, Minimum, Plumbo, Plumbic Oxide)

Pb_3O_4. Bright red, amorp. powd. Sp. gr. 9.096. M.P. decomposes between 500 and 580°C. Sol. acids. Uses—mfr. lead peroxide, ceramic cements, ceramic color, cut and crystal glass, match head compositions, pipe cement, marking crayons, storage batteries; as alcohol purifier; pigment paints, varnishes and rubber; in metallurgy; textile finishing; in medicine. Grades—tech. powd.; C.P.; U.S.P.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Associated Lead & Zinc Co, Seattle, Wash
†Eagle Picher Co, Cincinnati, O
†Euston Lead Co, Scranton, Pa
†Kirk, Morris P, & Son, Inc, Los Angeles, Calif
Mfrs Chem Co, N Y
†Metals Refg Co, Hammond, Ind
Mine & Smelter Supply Co, Denver, Colo
Ulrich Chem Co, Indianapolis, Ind
Zimmerman, C L, Co, Cincinnati, O

LEAD OXIDE, YELLOW (Litharge, Lead Monoxide, Massico, Plumbous Oxide, Lead Protoxide)

PbO. M.W. 223.22. Yellow to yellowish-red, crystalline powd. Sp. gr. 9.53. M.P. 888°C. B.P. at white heat. Sol. alkalies, acids. Uses: mfr. lead salts, varnishes, paints, preservative paints, enamels, ceramic cements, pipe cements and lutes, pottery glazes, cut and crystal glass, inks, dry colors, glues, cements, storage batteries, petroleum, putty, boiled linseed oil, rubber, pigment, linoleum, oil-cloth, acid resisting and match head compositions; as drier; mordant in dyeing and finishing textiles; paint and varnish drier; metallurgical flux; tanning leather; in medicine. Grades—powdered; fused; C.P., U.S.P.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Denver Fire Clay Co, 2301 Blake St, Denver, Col — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Wharry, E A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Associated Lead & Zinc Co, Seattle, Wash
†Eagle Picher Co, Cincinnati, O
†Euston Lead Co, Scranton, Pa
†Kirk, Morris P, & Son, Inc, Los Angeles, Calif
†MacGregor, John R, Lead Co, Chicago, Ill
†Metals Refg Co, Hammond, Ind
Ulrich Chem Co, Indianapolis, Ind
Zimmerman, C L, Co, Cincinnati, O

LEAD PERCHLORATE

†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

LEAD PEROXIDE (Lead Dioxide, Lead Oxide Brown, Puce, Lead Superoxide, Anhydrous Plumbic Acid)

PbO_2. M.W. 239.22. Brown, crystalline powd. Sp. gr. 9.375. Decomposes on heating. Sol. glacial acetic acid. Uses—mfr. intermediates, dyes, malachite green, match head compositions, explosives, rubber substitutes, electric batteries, electrodes; as oxidizing agent in making organic and inorganic chemicals; mordant in dyeing textiles; discharge in dyeing with indigo; laboratory reagent; in metallurgy; in medicine. Grades—tech.; U.S.P.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Col — Tabor 0251

Associated Lead & Zinc Co, Seattle, Wash
Beier Co, N Y
†Eagle Picher Co, Cincinnati, O
Shepherd Chem Co, Cincinnati, O

LEAD RESINATE (Plumbous Resinate)

$Pb\ (C_{20}H_{29}O_2)_2$. Yellowish-white, amorp. paste. Insol. in most solvents. Uses—drier paints, varnishes; for waterproofing textiles. Grades—tech.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Meyer, J. & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

†Mooney Chems, Inc, Cleveland, O

LEAD SILICATE

$PbSiO_3$. M.W. 283.27. Colorless, monoclinic crystals. Sp. gr. 6.49. M.P. 766°C. Insol. water. Sol. acids.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

†Eagle Picher Co, Cincinnati, O

LEAD STEARATE

$Pb(C_{18}H_{35}O_2)_2$. Yellowish-white amorp. paste. Sol. alcohol, ether. Uses—drier in paints, varnishes, lacquers. Grades—tech.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201

LEAD STEARATE (cont'd)

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653
Lo Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
†Metasap Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Berlow & Schlosser Co, Providence, R I — †Mooney Chems, Inc, Cleveland, O

LEAD SULFATE, BASIC (Sublimed White Lead, Anglesite Plumbous Sulfate, Vitriolate of Lead)

$PbSO_4.PbO$. White, amorp. powd. Sp. gr. 6.92. Decomposes on heating. Slightly sol. hot water. Uses—pigments in paints, enamels, putty, pottery glazes. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Col — Tabor 0251

Associated Lead & Zinc Co, Seattle, Wash — †Eagle Picher Co, Cincinnati, O

LEAD SULFIDE

PbS. M.W. 239.27. Sp. gr. 7.5. M.P. 1120°C.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Denver Fire Clay Co, 2301 Blake St, Denver, Col — Tabor 0251
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland

LEAD TALLATE

†Industrial Lining Engrs, Inc, Pittsburgh, Pa — †Mooney Chems, Inc, Cleveland, O

LEAD TETRA-ACETATE

$Pb(OAc)_4$. M.W. 443.4. Colorless to faintly pink crystals. Uses: splitting glycols, amino compounds.

†Arapahoe Chems Inc, 2800 Pearl St, Boulder, Colo — 613
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005

ARAPAHOE
TRADE-MARK
GIRARD'S REAGENTS, "P" & "T"
LEAD TETRA-ACETATE, $Pb(C_2H_3O_2)_4$
"VitaStain" (Tetrazolium Salt)
"ZEREWITINOFF" REAG'T, MeMgI
ARAPAHOE CHEMICALS, INC.
2800 PEARL STREET • BOULDER, COLORADO

LEAD TITANATE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

LEAD TUNGSTATE (Lead Wolframate, Wolframate, Raspite, Stolzite, Plumbous Tungstate)

$PbWO_4$. Yellowish powd. Sp. gr. 8.235. M.P. 1130°C. Sol. acids; slightly sol. water. Uses—as pigment. Grades—tech.

†North Metal & Chem Co, York, Pa

LEAD WHITE (Basic Carbonate, Ceruse, Lead Flake, Lead Subcarbonate, Cerussa)

$2PbCO_3Pb(OH)_2$. M.W. 775.68. White, amorp. powd. Decomposes on heating. Sol. acids. Uses—mfr. ceramic glazes, litharge; pigment in paints and enamels; ingredient putty; in medicine. Grades—tech. (dry and in oil); C.P.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

RED LEAD WHITE LEAD
LITHARGE
and other Paint & Rubber chemicals
GRADES FOR ALL PURPOSES
HIGHEST QUALITY—PROMPT SHIPMENT
KRAFT
CHEMICAL COMPANY
917 W. 18th St., CHICAGO 8, ILL.
"YOUR ONE SOURCE"

LEAD WHITE (cont'd)

Associated Lead & Zinc Co, Seattle, Wash — †Kuston Lead Co, Scranton, Pa
†Eagle Picher Co, Cincinnati, O — †National Lead Co, N Y

LEATHER FLOUR

Carefully ground and graded leather, air-separated to insure uniformity in mesh. Uses—mfr. composition fillers and fabrics; compounding.

†Composition Materials Co, Inc, 28 W 44 St, N Y — Bryant 9-3277
†Egleston, Wm D, Co, Cambridge, Mass

LEATHER SHREDDED

Fiberised leather scrap, from selected tannages graded as to fiber length. Uses—filler in general compounding—rubber, paper, plastics.

†Composition Materials Co, Inc, 28 W 44 St, N Y — Bryant 9-3277

alcolec soya lecithin
FOR ALL PURPOSES
all grades
COMMERCIAL-PURIFIED-MODIFIED
American Lecithin Company
ATLANTA CHICAGO NEW YORK

LECITHIN (Monoamino-Monophosphatide)

Combination of the esters of oleic, stearic, palmitic or other fatty acids with glycerophosphoric acid and choline. Yellowish-brown waxy substance contained in animal and vegetable tissues, also obtained from egg yolk. Insol. water; sol. alcohol, ether, chloroform. Decomposes on heating. Uses—industrial: ink, paint, shoe polish, typewriter ribbon, carbon paper, hectograph, lubricating oils, mine sprays, cosmetic, pharmaceutical. Food: chocolate, confectionery, baking products, lard, oleomargarine.

LECITHIN
*SOYAB Plastic unbleached
*SOYAB B. Plastic bleached
*SOYAB #300 Free flowing unbleached
*SOYAB #300 B. Free flowing bleached
*trademark
ATLAS IMPORT CO.
510 N. DEARBORN ST. CHICAGO 10, ILL.
Phone: Superior 8646

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For food and technical industries. Headquarters for quality lecithin products as well as the "Know How" of using lecithin.

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Ross & Rowe, Inc.

50 BROADWAY, New York 4, N. Y. — WRIGLEY BUILDING, Chicago 11, Ill.

LECITHIN (cont'd)

Amer Lecithin Co, Inc, 57-01 32 Av, Woodside, N Y	Astoria 4-4350
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
Atlas Import Co, 510 N Dearborn St, Chicago, Ill	Superior 7-8646
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
†Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill	Boulevard 6400
†General Mills, Inc, Chem Div, 400 2 Av S, Minneapolis, Minn	Atlantic 1144
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Robinson-Wagner Co, 110 E 42 St, N Y	Murray Hill 3-1184
Ross & Rowe, Inc, 50 Bway, N Y	Whitehall 3-7295
†Staley, A E, Mfg Co, Decatur, Ill	4141
Vitamins Inc, 809 W 58 St, Chicago, Ill	Normal 2727
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048

†Central Soya Co, Inc, Fort Wayne, Ind — †Glidden Co, Chicago, Ill
Enco Chem Corp, N Y

LECITHIN

from Corn or Soybeans

Bleached and unbleached, plastic and free flowing

LANOLIN

Cosmetic, U.S.P. Technical, Anhydrous and Hydrous

CHLOROPHYLL

Oil, water, and alcohol soluble types

Welch, Holme & Clark Co., Inc.

439 WEST STREET — NEW YORK 14, N.Y.

LEPIDINE

†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind Market 9461

LEUCINE (a-Amine-Isocaproic Acid)

$(CH_3)_2CHCH_2CH(NH_2)COOH$. M.W. 131.11. White powder. Sol. water, glycerin, dilute HCl.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Corn Prods Refg Co, 17 Battery Pl, N Y	Whitehall 4-0880
†Dow Chem Co, Midland, Mich	Midland 500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Lack Chem Co, 19 Park Pl, N Y	Cortlandt 7-5942
†Winthrop-Stearns Inc, 1450 Bway, N Y	La 4-6400

LEVULOSE (Fructose, Fruit Sugar)

$C_6H_{12}O_6$. Colorless needles. Sp. gr. 1.600. M.P. 104°C. Sol. water, alcohol, ether. Uses—as preservative; in medicine.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

Chem Commerce, Newark, N J

LIGNIN

Formula unknown: available as lignin sulphonate salts of various metals and as alkali lignin. Concentrated liquid and dry powder forms. Diversified uses.

†Marathon Corp, Chem Div, Rothschild, Wis	
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131

†Milwhite Co, Houston, Tex

LIGNIN SULFONATE

†Marathon Corp, Chem Div, Rothschild, Wis	
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131

†Milwhite Co, Houston, Tex

LIME, AGRICULTURAL

Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
†Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif	Twinoaks 3-4600
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†U S Gypsum Co, Industrial Div, 300 W Adams St, Chcago, Ill	State 2-6100
Austin White Lime Co, Austin, Texas	
†Columbia Quarry Co, St Louis, Mo	
†Cutler-Magner Co, Duluth, Minn	
Fedigan, E J, Inc, Pittsburgh, Pa	
†Gibsonburg Lime Prods Co, Gibsonburg, O	
†Limestone Prods Corp of Amer, Newton, N J	
†Longview Lime Corp, Birmingham, Ala	
McIver, Alex M, & Son, Charleston, S C	
†Marblehead Lime Co, Chicago, Ill	
†Mississippi Lime Co, Alton, Ill	
†National Gypsum Co, Buffalo, N Y	
Priddy, C W, & Co, Inc, Norfolk, Va	
†Rockland & Lockport Lime Co, Rockland, Me	
†Smith Lime Flour Co, Elizabeth, N J	
†U S Lime Prods Corp, San Fran, Calif	
†Utah Lime & Stone Co, Salt Lake City, Utah	
†Warner Co, Phila, Pa	
†Western Lime & Cement Co, Milwaukee, Wis	

LIME HYDRATED CHEMICAL (Calcium Hydroxide, Calcium Hydrate, Slaked Lime)

A dry powder obtained by treating quicklime with water enough to satisfy its chemical affinity for water under the conditions of its hydration. It consists essentially of calcium hydroxide or a mixture of calcium hydroxide, magnesium oxide and magnesium hydroxide.

Its principal chemical uses are in general the same as listed under lime (Quicklime). The A.S.T.M. specifications mentioned under quicklime also cover hydrated lime in most instances.

Hydrated lime is shipped in numerous sizes of paper and cloth bags (50 pounds generally) and also in bulk to water treating plants and other users of large quantities. Regular and superfine terms are used to designate differences in the fineness or particle size of hydrated limes.

Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas	CA2571
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif	Twinoaks 3-4600
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Opalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa	McKeesport 4-4278
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
†U S Gypsum Co, Industrial Div, 300 W Adams St, Chcago, Ill	State 2-6100
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y	Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

LIME

Hi Calcium and Dolomitic

Quickime and Hydrated Lime

Dolomitic and Hi Calcium Limestone

Fine Ground Dolomite

Fluxing Lime and Limestone

UNITED STATES GYPSUM COMPANY

Industrial Division

300 W. Adams St. — Chicago 6, Illinois

LIME HYDRATED CHEMICAL (cont'd)

†Austin White Lime Co, Austin, Texas
†Cutler-Magner Co, Duluth, Minn
†Gibsonburg Lime Prods Co, Gibsonburg, O
†Limestone Prods Corp of Amer, Newton, N J
†Longview Lime Corp, Birmingham, Ala
McIver, Alex M, & Son, Charleston, S C
†Marblehead Lime Co, Chicago, Ill
†Millwhite Co, Houston, Tex
†Mississippi Lime Co, Alton, Ill
†National Gypsum Co, Buffalo, N Y
†Nyotex Chems, Inc, Houston, Texas
†Palmyra Lime Prods Co, Clarksville, Tenn
Scheel, Wm H, Inc, Bklyn, N Y
†Smith Lime Flour Co, Elizabeth, N J
†U S Lime Prods Corp, San Fran, Calif
†Utah Lime & Stone Co, Salt Lake City, Utah
Van Waters & Rogers, Inc, Portland, Ore
†Warner Co, Phila, Pa
†Western Lime & Cement Co, Milwaukee, Wis
†Williams Lime Mfg Co, Knoxville, Tenn

LIME (Quicklime), Chemical

A calcined material, the major part of which is calcium oxide or calcium oxide in natural association with a lesser amount of magnesium oxide, capable of slacking with water. Contains also small quantities of silica, iron and aluminum oxides, and other impurities. Quicklime is produced by burning limestone or dolomite in shaft or rotary kilns. When exposed to the air for a considerable period of time, quicklime will absorb moisture and carbon dioxide. It first changes to calcium hydroxide, or hydrated lime, and later the exposed portion will unite with carbon dioxide from the air to form calcium carbonate, and thus the lime will lose some of its chemical activity for certain purposes. To prevent deterioration in storage quicklime is packed in steel drums or tight wooden barrels containing 180 or 280 lbs., and in waterproof multiwall paper bags or paper-lined burlap bags containing amounts of quicklime which vary among the different companies, usually about 80 lbs. Quicklime is shipped also in bulk.
Its principal chemical uses include the following: as a fluxing agent, and for wire drawing, pickling, annealing, and pig casting in the iron and steel industry; for causticizing, and the manufacture of bleach, paper filler, by-products from waste liquor in the paper industry; as a softening agent, corrosion corrective, and for iron, color, and objectionable gas removal in water treatment; as an important ingredient in the manufacture of soda-lime glass; for dehairing hides in the leather industry; as a raw material in the manufacture of calcium carbide and calcium cyanamide; in the processing or manufacture of sand-lime brick; silica brick; sugar; insecticides, fungicides, and disinfectants; glue and gelatin; sodium bicarbonate and soda ash; paint pigments; varnish; lubricating greases; textiles; dyestuffs and intermediates; and for the treatment of sewage and trade wastes.

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa — Atlantic 1-4545
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas — CA2371
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
†Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
†U S Gypsum Co, Industrial Div, 300 W Adams St, Chcago, Ill — State 2-6100

Austin White Lime Co, Austin, Texas
†Con Chem Industries, Inc, San Fran, Calif
†Cutler-Magner Co, Duluth, Minn
†Gibsonburg Lime Prods Co, Gibsonburg, O
†Longview Lime Corp, Birmingham, Ala
†Marblehead Lime Co, Chicago, Ill
†Mississippi Lime Co, Alton, Ill
†National Gypsum Co, Buffalo, N Y
†Nyotex Chems, Inc, Houston, Texas
†Palmyra Lime Prods Co, Clarksville, Tenn
†Rockland & Lockport Lime Co, Rockland, Me
†Smith Lime Flour Co, Elizabeth, N J
†U S Lime Prods Corp, San Fran, Calif
†Utah Lime & Stone Co, Salt Lake City, Utah
†Warner Co, Phila, Pa
†Western Lime & Cement Co, Milwaukee, Wis
†Williams Lime Mfg Co, Knoxville, Tenn

LIME, VIENNA

Special type of lime, extremely amorphous in character, in contrast with the granular structure of most limes. Uses: in formulation of polishing and buffing compounds.

Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Smith Lime Flour Co, Elizabeth, N J

LINALOOL

$C_{10}H_{18}O$. M.W. 154.2. Colorless liq. B.P. 195-198°C. Slightly sol. water, sol. alcohol, ether. Uses—in perfumery in preparation of many floral odors.

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Roure-Du Pont Inc, 366 Madison Av, N Y — Vanderbilt 6-5830
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

LINALYL ACETATE

$C_{12}H_{20}O_2$. M.W. 196.2. Colorless to slightly yellow liq. with odor of bergamot. B.P. 220°C. Slightly sol. water, sol. alcohol, ether. Uses—mfr. artificial bergamot oils.

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600

LINALYL ACETATE (cont'd)

†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Roure-Du Pont Inc, 366 Madison Av, N Y — Vanderbilt 6-5830
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

LINALYL FORMATE

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

LINALYL ISO BUTYRATE

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

LINALYL PROPIONATE

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

LIQUEFIED PETROLEUM GASES

Principal members of the group are: ethylene, propane, butane, isobutane, propylene, butylene. Butane is used for enriching water gas; as a base material for manufactured gas; in connection with butane-air distribution from central stations where manufactured or natural gas is not available. Propane is widely used for so-called "bottle service," for country residences, etc. Butane is used for commercial heating in plants. Ethane is sometimes used as a fuel. Ethylene is used for ripening fruit and as an anaesthetic. Propylene and butylene are used in organic synthesis.

†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Amer Oxygen Service Corp, Harrison, N J
†Union Oil Co of Calif, Los Angeles, Calif

LITHIUM (Metal)

Li. At.Wt. 6.94. Silvery white metal. Uses: in metallurgy as degasifier, deoxidizer, desulfurizer, general purifying agent; organic syntheses; analytical reagent for nitrogen in rare gases.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
†Metalloy Corp, Rand Tower, Minneapolis, Minn — Atlantic 2391
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Mackay, A D, Inc, N Y

LITHIUM
METAL HYDRIDE
SALTS
MAYWOOD CHEMICAL WORKS
Maywood, New Jersey
Manufacturers Since 1896

LITHIUM HEADQUARTERS



Three important factors give Metalloy closest possible control over the quality of our Lithium metal and salts:

1. Own ore deposits.
2. Own complete electro-metallurgical and chemical processing plant.
3. Possess adequate research facilities and personnel.

Available in commercial and experimental quantities:
LITHIUM METAL—Ingot, cups, rod, wire, shot, ribbon. Uses: Organic synthesis. LITHIUM HYDRIDE—Lump, ground. Uses: Drying agent, hydrogen generation, organic reactions. LITHIUM AMIDE—Lump, powder. Uses: Stable amide for organic condensations. LITHIUM BROMIDE, LITHIUM CARBONATE, LITHIUM CHLORIDE, LITHIUM FLUORIDE, LITHIUM HYDROXIDE—Anhydrous, monohydrate, LITHIUM NITRATE.

CERAMIC LITHIUM COMPOUNDS
LITHIUM ALUMINATE, LITHIUM COBALTITE, LITHIUM MANGANITE, LITHIUM METABORATE DIHYDRATE, LITHIUM MOLYBDATE, LITHIUM SILICATE, LITHIUM TITANATE, LITHIUM ZIRCONATE, LITHIUM ZIRCONIUM SILICATE.

Write today for FREE data sheets. No obligation.

METALLOY CORPORATION
RAND TOWER MINNEAPOLIS, MINN.
Division LITHIUM CORPORATION OF AMERICA, INC.

LITHIUM ACETATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa	Victor 4-9214
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020

LITHIUM ALUMINATE

Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Metalloy Corp, Rand Tower, Minneapolis, Minn	Atlantic 2391

LITHIUM ALUMINUM

†Metalloy Corp, Rand Tower, Minneapolis, Minn	Atlantic 2391

LITHIUM ALUMINUM HYDRIDE

†Metal Hydrides, Inc, 16 Congress St, Beverly, Mass	Beverly 1875

Metal Hydrides INCORPORATED

L-A-H*

*LITHIUM ALUMINUM HYDRIDE

A unique, powerful and specific reducing agent which will instantly reduce carbonyl compounds, esters, acid chlorides and acid anhydrides to alcohols. Carbon to carbon double bonds are generally not affected.

Technical Data Available

METAL HYDRIDES INCORPORATED
CONGRESS STREET • BEVERLY, MASS.

LITHIUM AMIDE

LiNH₂. M.W. 22.96. White crystalline lumps or powder. Insol. in ethyl ether, benzene, toluene. Uses: claisen condensations; alkylation of nitriles, ketones; synthesis of ethinyl compounds, acetylenic carbinols.

LITHIUM AMIDE (cont'd)

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Metalloy Corp, Rand Tower, Minneapolis, Minn	Atlantic 2391

LITHIUM BENZOATE

$LiC_7H_5O_2$. M.W. 128.05.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa	Victor 4-9214
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

LITHIUM

LITHIUM BENZOATE, N. F. Grade • LITHIUM BORATE (Powdered), Technical Grade • LITHIUM BROMIDE (Powdered), N. F. Grade and 53% Brine • LITHIUM CARBONATE, Commercial & N. F. Grades • LITHIUM CHLORIDE, Fused & 40% Brine • LITHIUM CITRATE, N. F. Grade (Granular or Powdered) • LITHIUM FLUORIDE (Fine white powder, purified) • LITHIUM HYDROXIDE (Mono-hydrate 55% LIOH) • LITHIUM NITRATE (A powdered technical and pure grade • LITHIUM STEARATE (A metal soap for use in grease and wax manufacture. Trade name LITHOLITE "A") • LITHIUM SULPHATE, Technical Grade • LITHIUM ORES (AMBLYGONITE, SPODUMENE & LEPIDOLITE)

Foote MINERAL COMPANY

FOOTE MINERAL COMPANY
409 Eighteen West Chelten Bldg.
Philadelphia 44, Penna.

LITHIUM BORATE

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa	Victor 4-9214
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Metalloy Corp, Rand Tower, Minneapolis, Minn	Atlantic 2391

LITHIUM BROMIDE

LiBr. M.W. 86.86. White, hygroscopic, granular powder. Uses: air conditioning.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Dow Chem Co, Midland, Mich	Midland 500
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Hercules Powder Co, 978 Market St, Wilmington, Del	
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalloy Corp, Rand Tower, Minneapolis, Minn	Atlantic 2391
†Michigan Chem Corp, St Louis, Michigan	41
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

LITHIUM CARBONATE

Li_2CO_3. Light, white, alkaline powd. Sp. gr. 2.111. Sol. acids; slightly sol. water; insol. alcohol. Uses—mfr. mineral waters; in medicine. Grades—tech.; N.F.V.; C.P.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa	Victor 4-9214
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalloy Corp, Rand Tower, Minneapolis, Minn	Atlantic 2391
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

LITHIUM CHLORIDE

LiCl. M.W. 42.4. White crystalline powd. Sp. gr. 2.068. M.P. 613°C. Sol. water, alcohol, ether. Uses—mfr. mineral waters, pharmaceutical preparations, pyrotechnics; as photographic reagent; soldering aluminum; in medicine. Grades—tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330

LITHIUM CHLORIDE (cont'd)

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa	Victor 4-9214
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalloy Corp, Rand Tower, Minneapolis, Minn	Atlantic 2391
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

LITHIUM CITRATE

$Li_3C_6H_5O_7.4H_2O$. **Transparent, colorless granule or cryst. powd. Taste feebly alkaline; deliquescent on exposure to moist air. Sol. water; slightly sol. alcohol. Uses—mfr. mineral waters; in medicine. Grades—tech.; N.F.V.**

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa	Victor 4-9214
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

LITHIUM COBALTITE

$LiCoO_2$. M.W. 97.8. Blue-black powder. Insol. water. Uses: ceramics industry in ground coat enamels.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Metalloy Corp, Rand Tower, Minneapolis, Minn	Atlantic 2391

LITHIUM FLUORIDE

LiF. **M.W. 25.94. Fluffy, white powder. Uses: mill addition in leadless pottery glazes; flux in glazes and glasses; flux in welding.**

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Denver Fire Clay Co, 2301 Blake St, Denver, Colo	Tabor 0251
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa	Victor 4-9214
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Metalloy Corp, Rand Tower, Minneapolis, Minn	Atlantic 2391

LITHIUM HYDRIDE

LiH. M.W. 7.95. White, translucent, crystalline mass; brittle. M.P. 680°C. Insol. ethyl ether, benzene, toluene. Uses: drying agent; hydrogen generation; condensing agent.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Metalloy Corp, Rand Tower, Minneapolis, Minn	Atlantic 2391
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176

LITHIUM HYDROXIDE

$LiOH.H_2O$. M.W. 41.96.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa	Victor 4-9214
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalloy Corp, Rand Tower, Minneapolis, Minn	Atlantic 2391
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

LITHIUM MANGANITE

Li_2MnO_3. M.W. 116.80. Reddish brown powder. Insol. water. Uses: ceramics industry in ground coat enamels.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Metalloy Corp, Rand Tower, Minneapolis, Minn	Atlantic 2391

LITHIUM NAPHTHENATE

M.W. about 240. 8% metal. Amber semi-solid. Sol. water, hydrocarbons. Uses: electrolysis catalyst, resin stabilizer.

†Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552

LITHIUM

Benzoate
Bromide
Carbonate
Chloride
Citrate
Fluoride
Hydroxide
Naphthenate
Nitrate
Oxalate
Salicylate
Stearate
Sulfate

MAYWOOD CHEMICAL WORKS
Maywood, New Jersey
Manufacturers Since 1896

LITHIUM NITRATE

$LiNO_3$. **M.W. 69.0. Colorless crystals. M.P. 253°C. Sol. water. Uses—mfr. ceramics; pyrotechnics for red flares; artificial mineral waters. Grades—C.P.; tech.**

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa	Victor 4-9214
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Metalloy Corp, Rand Tower, Minneapolis, Minn	Atlantic 2391
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

LITHIUM OXALATE

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa	Victor 4-9214
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020

LITHIUM PERCHLORATE

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

LITHIUM PERMANGANATE

$LiMnO_4.3H_2O$. **M.W. 179.89. Very sol. water. Use: oxidizing agent.**

†Carus Chem Co Inc, Union & 8 Sts, La Salle, Ill	La Salle 1500

LITHIUM SALICYLATE

$LiC_7H_5O_3$. M.W. 144.02. White or grayish-white, odorl., sweetish powd. Deliq. in moist air. Uses—medicinal. Cont.—300 lb. barrels, 100 and 50 lb. kegs and 5 lb. cans.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000

LITHIUM m-SILICATE

Li_2SiO_3. M.W. 89.94. White powder. M.P. 1201°C. Insol. water. Uses: as a flux in enamels and glazes; in welding as a flux for electrode coatings.

Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Metalloy Corp, Rand Tower, Minneapolis, Minn	Atlantic 2391

LITHIUM STEARATE

A metal soap, insoluble in water. M.P. 217°C. Sp gr. < 1, pH 7 to 8, iodine No. 2 to No. 3, saponification number 209-210, white and odorless. Uses—in grease manufacture, cosmetics and as an oil soluble emulsifying and dispersing agent.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa	Victor 4-9214
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
†Metasap Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
†Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

LITHIUM SUCCINATE

$C_4H_4O_4Li_2$. **M.W. 130. White crystals or powder; sol. water. Use: medicinal.**

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330

LITHIUM SULFATE

$Li_2SO_4.H_2O$. **M.W. 127.96.**

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330

LITHIUM SULFATE (cont'd)

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Metalloy Corp, Rand Tower, Minneapolis, Minn — Atlantic 2391

LITHIUM TARTRATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214

LITHIUM TITANATE

Li_2TiO_3. M.W. 109.78. White, fluffy powder. Insol. water. Uses: flux in titanium-bearing enamels; mill addition in vitreous and semi-vitreous glazes.

Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Metalloy Corp, Rand Tower, Minneapolis, Minn — Atlantic 2391

LITHIUM ZIRCONATE

Li_2ZrO_3. M.W. 153.10. Creamy-white powder. Insol. water. Uses: opacifier in cover coat enamels; flux in zirconium-opacified glasses, glazes and porcelains; opacifier in opaque glasses smelted at extreme temperature.

Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Metalloy Corp, Rand Tower, Minneapolis, Minn — Atlantic 2391

LITHIUM ZIRCONIUM SILICATE

Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Metalloy Corp, Rand Tower, Minneapolis, Minn — Atlantic 2391

LITHOPONE (Charlton White, Griffith's White, Orr's White, Nevin's White, Ross' White, Pinolith, Zinc Baryta White, Porcelain White, Zincolith, Duresco, Zinc Sulfide White, Sulfide White, Enamel White, Knight's Patent Zinc White, Beckton White, Fulton White, Oleum White, Marbon White)

Mixture of $BaSO_4 + ZnS + ZnO$. White, crystalline mass or powd. Sp. gr. 4.30. Uses—mfr. flat and enamel wall paints, varnishes, marine paints, white leather, white printing ink, window shade cloth, face pwrs., cosmetics; as filler in textiles; pigment and filler in rubber compounding; pigment in linoleum and oilcloth. Grades—according to fineness and whiteness.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Chem & Pigments Co, Oakland, Calif
†Eagle Picher Co, Cincinnati, O
Eastern Color & Chem Co, N Y
†New Jersey Zinc Sales Co, N Y
Osborn, C J, Co, N Y
Rimco Trading Corp, N Y

LIVER OF SULFUR (Potassa Sulphurated, so called "Potassium Sulphide")

Mixture of potassium sulfides and thiosulfate containing not less than 12.8% sulfide as S. Uses—medicine, producing color effects on brass, bronze, nickel, gun metal, etc.

Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430

†Palmyra Lime Prods Co, Clarksville, Tenn

LOGWOOD (Haematoxylum)

Heartwood of Haematoxylum campechanum. Habitat—Central America, West Indies. Sp. gr. 0.91. Uses—tanning leather; dyeing textiles; coloring in port wine; in medicine. Grades—sticks; chips.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Denver Fire Clay Co, 2301 Blake St, Denver, Colo — Tabor 0251
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Manahan Chem Co, Inc, Bklyn, N Y

Established 152 Years

AMERICAN DYEWOOD COMPANY

22 East 40th Street — New York (16)

LOGWOOD

Leather — Wool — Cotton — Paper — Nylon

Hematine — Wattle Bark
Fustic — Solid Wattle Extract
Hypernic — Solid Quebracho Extract
Osage Orange — Sumac
Quercitron — Adcotan Extracts

Spray Dried Tanning Extracts
Hematoxylin Technical

NEW YORK COLOR & CHEMICAL CO.

BELLEVILLE, NEW JERSEY

(Div. American Dyewood Co.)

Dyestuffs — Sap Brown — Synthetic Tanning Agents
Pigments — Chemical Specialties — Guanidine Hydrochloride

LOGWOOD EXTRACT

Concentrated logwood liq. Sp. gr. 1.25. Uses: tanning leather; dyeing textiles. Grades—61% liq.; solid.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Meres & Gregg, Phila, Pa

2, 4-LUTIDINE (2, 4-Dimethylpyridine)

C_7H_9N. M. W. 107.15. Sp. gr. 0.929 at 25°/4°C. Refractive index 1.4981 at 25°C. B. P. 158.3°C. Uses—synthesis of dyes, pharmaceuticals or other organic chemicals as a reactant or purifying agent.

Paragon Div, Mathesen Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

2,6-LUTIDINE (Dimethyl Pyridine)

$C_5H_3N(CH_3)_2$. M.W. 107. Sol. water, most common organic solvents. Uses: pharmaceuticals, resins, dyestuffs, rubber accelerators, insecticides.

†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

LYCOPODIUM

Vegetable sulfur. A dry, light yellow powder consisting of the inflammable spores of Lycopodium clavation, a club-moss. Uses: dusting powder, for coating pills, in brass foundries.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

LYSINE

$H_2N(CH_2)_4CH(NH_2)COOH$. M.W. 146.2. An amino acid present in certain protein foods required in human nutrition for growth and maintenance of health, weight, and nitrogen balance.

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
†Dow Chem Co, Midland, Mich — Midland 500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400

MADDER

Ransom, L E, Co, N Y

MAGNESITE (Magnesium Carbonate)

$MgCO_3$. Natural, solid crystalline. Sp. gr. 3.02. Sol. hot hydrochloric acid. Uses—mfr. magnesia cements, refractive firebrick and furnace linings, Sorrel cement, magnesium salts, ferro-magnesium, epsom salts, metallic magnesium, carbon dioxide gas, refractory

MAGNESITE

CALCINED OR CRUDE
DOMESTIC AND IMPORTED
ALL TYPES CAN BE FURNISHED
UNGROUND AND GROUND TO MEET
EXACTING SPECIFICATIONS.

GENERAL MAGNESITE & MAGNESIA CO.

P. O. Box 671, Norristown, Pa.

MAGNESITE (cont'd)

crucibles, plaster tiles, artificial stones lining metallurgical furnaces and cement kilns; in place of dolomite in steel making; whitening calcined; dead burned; periclase.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
†Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†General Magnesite & Magnesia Co, P O Box 671, Norristown, Pa — Plymouth Meeting 2880
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
†Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
†Michigan Chem Corp, St Louis, Michigan — 41
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Hueston, C L, Detroit, Mich — Western Chem & Mfg Co, Los Angeles, Calif
Speiden-Whitfield Co, N Y

HIGH QUALITY
WHITE CALCINED MAGNESITE
GOLWYNNE
CHEMICALS CORPORATION
420 LEXINGTON AVENUE • NEW YORK 17, N. Y.

MAGNESIUM (Metal)

Mg. Silvery, malleable metal, moderately hard fibre. Burns with an intense white heat. Sp. gr. 1.69-1.75. M.P. 650°C. B.P. 1110°C. Sol. acids; insol. water. Uses—mfr. flashlight pwrs., ribbon flash sheets, pyrotechnics, magnesium salts, hydrogen, ceramics, organic chemicals, optical mirrors, intermediate chemicals, dyes, printing plates, precision and scientific instruments, automobile and airplane parts, electric batteries; as zinc substitute; desulfuriser; in refining nickel alloys; dioxidizing brass and bronze alloys. Grades—powd.; sticks; wire; ribbon.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Atlas Import Co, 510 N Dearborn St, Chicago, Ill — Superior 7-8646
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
†Dow Chem Co, Midland, Mich — Midland 500
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
†Federated Metals Div, N Y — Longview Lime Corp, Birmingham, Ala

MAGNESIUM ACETATE

$Mg(C_2H_3O_2)_2 \cdot 4H_2O$. Colorless, deliq. cryst. Sp. gr. 1.45. Sol. water, alcohol. Uses—as disinfectant and deodorant; reserve in dyeing and printing textiles; in medicine.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

MAGNESIUM ALUMINUM SILICATE

Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864

MAGNESIUM AMMONIUM PHOSPHATE (Magnesium Ammonium Ortho Phosphate)

$MgNH_4PO_4 \cdot 6H_2O$. White powd. insol. water, sol. acids. Decomposes on heating. Uses—fire retardant for theatre scenery and curtains. Grades—tech.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

MAGNESIUM ARSENATE

$Mg_3(AsO_4)_2 \cdot 22H_2O$. M.W. 747.16. Ivory-colored, finely divided powder. Use—as an insecticide.

†Dow Chem Co, Midland, Mich — Midland 500
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600

MAGNESIUM BENZOATE

$Mg(C_7H_5O_2)_2 \cdot 3H_2O$. M.W. 320.09. White powder. Loses $3H_2O$ 110°C. Sol. water.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330

MAGNESIUM BROMIDE

$MgBr_2 \cdot 6H_2O$. M.W. 292.2 Colorless, very deliquescent crystals having a bitter taste. Sol. in water, slightly in alcohol. M.P. decomposes. Uses—mfr. various organic compounds; in medicine.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Dow Chem Co, Midland, Mich — Midland 500
Lo Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Michigan Chem Corp, St Louis, Michigan — 41

MAGNESIUM CACODYLATE

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543

MAGNESIUM CARBONATE (Magnesia Alba, Magnesite, Magnesia Alba Levis)

$MgCO_3$. M.W 84.32. White, crystalline powd. Sp. gr. 3.04. Decomposes at 350°C. Sol. dilute acids. Uses—mfr. magnesium salts, magnesia, carbon dioxide, fire-resistant paints, dry colors, printing ink, ceramics, glass, cosmetics, varnishes, tooth pastes, face pwrs., refractories, polishing and fire-proofing compositions, boiler scale compounds, acid-neutralizing fertilizers, mineral waters; in free-running table salts; heat insulating; electric furnace construction; as filler, paint pigment, paper, linoleum and oilcloth; pigment in rubber compounding; general filtering medium; in medicine. Grades—tech.; U.S.P., precipitated.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Carey, Philip, Mfg Co, Cincinnati, O — Valley 3000
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
General Magnesite & Magnesia Co, P O Box 671, Norristown, Pa — Plymouth Meeting 2880

Carey
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In Canada: The Philip Carey Co., Ltd., 1567 MacKay St., Montreal 25, P. Q.

Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 7560
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Michigan Chem Corp, St Louis, Michigan — 41
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5500
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655

Maglite M

For Neoprene

Magnesium Carbonate — Magnesium Oxide
Magnesium Hydroxide

Produced By
Marine Magnesium Products Corporation

Whittaker, Clark & Daniels, INC.
260 West Broadway, New York 13, N. Y.

MAGNESIUM CARBONATE (cont'd)

†Reheis Co Inc, Berkeley Hghts, N J	Summit 6-7110
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y	Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

Cohen, Harry, Atlanta, Ga
Egleston, Wm D, Co, Cambridge, Mass
†Keasbey & Mattison Co, Ambler, Pa
Mfrs Mining Co, Seattle, Wash
Palmer Supplies Co, Cleveland, O
Robins, G S, & Co, St Louis, Mo
Speiden-Whitfield Co, N Y
Taussig, F H, Chems, N Y
†Warner Co, Phila, Pa

MAGNESIUM CHLORIDE

a. $MgCl_2$. b. $MgCl_2 6H_2O$. Colorless or white, deliq. cryst. Sp. gr. a. 2.325. b. 1.569. M.P. a. 712°C. b. Loses water at 118°C. B.P. a. At red heat. b. Decomposes. Sol. water, alcohol. Uses: mfr. ceramics, magnesia cements, lignolite, xylonite, hydrochloric acid, magnesium salts, magnesia, artificial flooring and fire extinguishing compositions, stucco, paper, beer, refrigerating brines; as thread lubricant; textile size; oxidizing catalyst; chilling drilling tools; dressing and filling cottons and woolens; dyeing textiles; carbonizing wool; fireproofing wood; treating mine timbers and railroad ties.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
LaPlace, L J & M, 171 Zabriskie St, Hackensack, N J	Hackensack 3-0412
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920

Interboro Chem Co, N Y
Speiden-Whitfield Co, N Y
Western Chem & Mfg Co, Los Angeles, Calif

MAGNESIUM CHLORIDE

DOW

THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products
Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.
See listing ad for other products

MAGNESIUM CHROMATE

$MgCrO_4 7H_2O$. M.W. 266.44. Yellow, rhombic crystals. Sp. gr. 1.695. Loses $3H_2O$ at 120°C. Sol. water.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005

MAGNESIUM FLUORIDE

MgF_2. M.W. 63.32. White, crystalline powd. Sp. gr. 3.0. M.P. 1396°C. Sol. nitric acid; insol. water.—Uses mfr. glass; as flux in ceramics. Grades—tech; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
†Sundheimer, Henry, Co, 103 Park Av, N Y	Murray Hill 5-4214

MAGNESIUM FORMATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330

MAGNESIUM GLUCONATE

$Mg(C_6H_{11}O_7)_2 2H_2O$. Odorless, practically tasteless white powder. Sol. water. Uses—medicinal.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

MAGNESIUM GLYCEROPHOSPHATE

$MgPO_4C_3H_5(OH)_2$. M.W. 194.43. White, odorl. powd. Sol. water, insol. alcohol. Uses—medicine.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
European Chem Co Inc, 366 Bway, N Y	Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

MAGNESIUM GUAIACOL SULFONATE

†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

MAGNESIUM HYDROXIDE (Magnesium Hydrate, Brucite)

$Mg(OH)_2$. White powd. or cryst. Sp. gr. 2.36. Decomposes on heating. Sol. solutions of ammonium salts; slightly sol. water. Uses—mfr. magnesium oxide, Sorrel cement; sugar refining; in medicine. Grades—tech.; medicinal.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
General Magnesite & Magnesia Co, P O Box 671, Norristown, Pa	Plymouth Meeting 2880
†Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif	Twinoaks 3-4600
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Michigan Chem Corp, St Louis, Michigan	41
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Reheis Co Inc, Berkeley Hghts, N J	Summit 6-7110
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y	Walker 5-3749

Longview Lime Corp, Birmingham, Ala
Palmer Supplies Co, Cleveland, O
†Warner Co, Phila, Pa

MAGNESIUM HYPOPHOSPHITE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600

MAGNESIUM LACTATE

$Mg(C_3H_5O_3)_2 3H_2O$. White crystals, bitter taste. Uses—medicinal.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007

MAGNESIUM LIGNOSULFONATE

†Marathon Corp, Chem Div, Rothschild, Wis

MAGNESIUM NAPHTHENATE

M.W. about 470. 5% metal. Amber solid; swells in hydrocarbons. Uses: pigment bender and waterproofer; lube oil additive.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552

MAGNESIUM NITRATE

$Mg(NO_3)_2 6H_2O$. M.W. 256.48. Clear, colorless, deliq. cryst. Sp. gr. 1.464. M.P. 95°C. Sol. water, alcohol. Uses—mfr. pyrotechnic compositions. Grades—tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430

MAGNESIUM OLEATE

$Mg(C_{18}H_{33}O_2)_2$. M. W. 586.83. Yellowish, oily mass. Sol. alcohol, ether, oils; insol. water. Uses—as varnish drier; preventing spontaneous ignition of benzine in cleaning plants.

†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

MAGNESIUM OXALATE

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005

Baker's chemicals

MAGNESIUM OXIDE
MAGNESIUM CARBONATE
MAGNESIUM HYDROXIDE
MAGNESIUM TRISILICATE

J. T. BAKER CHEMICAL CO.
PHILLIPSBURG, N. J.
New York Philadelphia Chicago

MAGNESIUM OXIDE (Magnesia, Periclasite, Ponderous Magnesia, Calcined Magnesia, Magnesia Usta)

MgO. M.W. 40.32. White powd. Sp. gr. 3.65. M.P. 2800°C. Sol. acids, ammonia salts. Uses—mfr. ceramics, magnesia cements. Sorrel cement, refractories, crucibles, powdered oils, furnace linings, open hearth steel furnaces, pipe coverings, paper, heat insulating compositions and preparations, fire-proofing compositions, face pwrs., toilet preparations, mineral waters, paints, varnishes, fertilizers; in platinum substitutes; copper smelting; dry cleaning fabrics; as rubber filler; fat splitting agent; in medicine; polishing medium. Grades—U.S.P.; C.P.; tech.; light; heavy.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201

MAGNESIUM OXIDE
(MAGNESIA)

Westvaco produces a wide variety of Magnesias from both seawater and mined magnesites. Extreme flexibility of plant facilities allows the production of "custom-built" Magnesias suited to new applications.

MAGNESIA GRADES
ADSORPTIVE (various activities)
AGRICULTURAL, CHEMICAL, CHLORIDE-FREE,
INSULATION, OXYCHLORIDE CEMENT,
REFRACTORY & RUBBER GRADES.

MAGNESITE, Crude Mined
MAGNESIUM SILICATE, Absorptive (Magnesol®)
MAGNESIUM CHLORIDE, Solution, Liquid and Flake
MAGNESIUM SULFATE

®TM Reg. U. S. Pat. Off.

SEE BACK COVER FOR LIST OF WESTVACO CHEMICALS

Westvaco CHEMICALS

WESTVACO CHEMICAL DIVISION
FOOD MACHINERY AND CHEMICAL CORPORATION
GENERAL OFFICES • 405 LEXINGTON AVENUE, NEW YORK 17
CHICAGO, ILL. • CLEVELAND, OHIO • CINCINNATI, OHIO
ST. LOUIS, MO. • LOS ANGELES, CALIF. • NEWARK, CALIF.

MAGNESIA
MAGNESIUM CARBONATE
TECHNICAL AND U.S.P. GRADES
MAGNESIUM OXIDE
TECHNICAL AND U.S.P. GRADES
EXTRA LIGHT
THE ORIGINAL NEOPRENE TYPE
LIGHT—MEDIUM—HEAVY
GENERAL MAGNESITE & MAGNESIA CO.
P. O. Box 671, Norristown, Pa.

MAGNESIUM OXIDE (cont'd)

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Dow Chem Co, Midland, Mich — Midland 500
Elbert & Co, Inc, 2 Bway, N Y — Digby 4-2670
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
†General Magnesite & Magnesia Co, P O Box 671, Norristown, Pa — Plymouth Meeting 2880
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600

HIGH QUALITY
HEAVY CALCINED MAGNESIA
GOLWYNNE CHEMICALS CORPORATION
420 LEXINGTON AVENUE • NEW YORK 17, N. Y.

Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
†Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919

Permanente
MAGNESIUM OXIDES
High quality industrial grades manufactured by the seawater process.

Permanente Heavy Magnesia
Chemical Lightburn Magnesia
Intermediate Lightburn Magnesia
Hardburned Magnesia
Deadburned Magnesite (refractory)
Paper Grade Magnesia
Rayon Grade Magnesia
Rubber Grade Magnesia
Magnesium Hydroxide
Periclase (refractory)

Most grades available in granular or pulverized form. Your inquiry for special grades is invited.

CHEMICAL DIVISION
KAISER ALUMINUM & CHEMICAL SALES, Inc.
1924 Broadway, Oakland 12, California
1422 First National Tower, Akron 8, Ohio



MAGNESIUM OXIDE (cont'd)

McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Michigan Chem Corp, St Louis, Michigan	41
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Reheis Co Inc, Berkeley Hghts, N J	Summit 6-7110
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y	Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

Egleston, Wm D, Co, Cambridge, Mass
†Gen Electric Co, Pittsfield, Mass
†Keasbey & Mattison Co, Ambler, Pa
Longview Lime Corp, Birmingham, Ala
Palmer Supplies Co, Cleveland, O
Spelden-Whitfield Co, N Y
†Warner Co, Phila, Pa

MAGNESIUM PERCHLORATE

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2727
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

MAGNESIUM PERMANGANATE

$Mg(MnO_4)_2.6H_2O$. M.W. 370.3. A granular dark blue mass which is soluble in water. Uses—antiseptic; syntheses.

†Carus Chem Co Inc, Union & 8 Sts, La Salle, Ill	La Salle 1500
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712

MAGNESIUM PEROXIDE (Magnesium Perhydrol, Magnesium Dioxide, Magnesium Superoxide)

MgO_2. White powd. Decomposes on heating. Sol. acids; almost insol. water. Uses—general bleaching and oxidizing agent; bleaching woolens and silks; in medicine. Grades—tech.

Becco Sales Corp, Buffalo, N Y	Bedford 8300
†Buffalo Electro-Chem Co, Inc, Buffalo, N Y	Bedford 8300
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

Barium & Chems, Inc, Willoughby, O

MAGNESIUM PHOSPHATE (Tri Magnesium Phosphate, Neutral Magnesium Phosphate)

$Mg_3(PO_4)_2.4H_2O$. M.W. 335.06. Colorless monoclinic cryst. powd. Insol. water. Uses—largely pharmaceutical as an anti-acid. Grades—tech.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg 3-2151
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541

MAGNESIUM POWDER

In finely divided form can be ignited and burns with an intense white light. Sol—acids: Insol—water. Uses—Pyrotechnics; photographic flash light powder, metallurgy; intense signal light; in organic synthesis; Grignard Reagent.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900

†Magna Mfg Co, Inc, Haskell, N J

MAGNESIUM RESINATE

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552

MAGNESIUM RICINOLEATE

$(C_8H_{13}CHOH\text{-}CH_2CH\text{=}CH\text{-}(CH_2)_7COO)_2Mg$. M.W. 619. Soft, plastic solid, light tan in color. Uses: additive for paints, lubricants, greases.

†Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500

MAGNESIUM SALICYLATE

$Mg(C_7H_5O_3)_2.4H_2O$. M.W. 370.53. Colorl. or slightly reddish, efflores., cryst. powd. Sol. water, alcohol. Uses—medicine.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Dow Chem Co, Midland, Mich	Midland 500
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600

MAGNESIUM SILICATE (Talcum)

$MgSiO_4$. Fine white powd. Insol. Uses—mfr. ceramics, glass refractories; as bleaching agent for oils; filler in paints, varnishes, lacquers and rubber; in medicine. Grades—tech.; C. P.

Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
†Johns-Manville, 22 E 40 St, N Y	Lexington 2-7600
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y	Walker 5-3749

Zimmerman, C L, Co, Cincinnati, O

MAGNESIUM SILICOFLUORIDE (Magnesium Fluosilicate)

$MgSiF_6$. M.W. 166.38. White crystalline powder. Sol. in water. $MgSiF_6$. White powd. Sol. water. Uses—mfr. ceramics; hardening and waterproofing concretes. Grades—tech., cryst., 30% solution.

Aceto Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
†Amer Agricultural Chem Co, 50 Church St, N Y	Barclay 7-1400
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Davison Chem Corp, 101 N Charles St, Baltimore, Md	Saratoga 3900
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
†Sundheimer, Henry, Co, 103 Park Av, N Y	Murray Hill 5-4214
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473

Great Lakes Chem Co, Chicago, Ill

DAVISON
Chemical Products
FOR INDUSTRY and AGRICULTURE

SILICOFLUORIDE PRODUCTS

AMMONIUM
MAGNESIUM
POTASSIUM
SODIUM
ZINC
} SILICOFLUORIDES

Hydrofluosilicic Acid, Sulphuric Acid, Magnesium Casting Compound 23-A, Granulated Superphosphates, Fertilizers, Silica Gel, PROTEK-SORB* silica gel, Alum, Catalysts.

★

See Davison's advertisements on these products in other sections of this book.

*Reg. U. S. Pat. Off.

THE DAVISON CHEMICAL CORPORATION
BALTIMORE-3 • MARYLAND

MAGNESIUM STEARATE (Dolomol)

$Mg(C_{18}H_{35}O_2)_2$. Soft, white, light powd. Sol. hot alcohol; insol. water. Uses—mfr. stearic acid; drier in paints and varnishes; in medicine. Grades—tech.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201

MAGNESIUM STEARATE (cont'd)

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-3067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653
Lo Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Metasap Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Reheis Co Inc, Berkeley Hghts, N J — Summit 6-7110
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

MAGNESIUM SULFATE

Epsom Salt—U.S.P., Technical and Stock Food

DOW

THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products

Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.

See listing ad for other products

MAGNESIUM SULFATE (Epsom Salts, Kieserite, Sal Cathartic um, Bitter Salts)

$MgSO_4 + 7H_2O$. M.W. 246.49. Colorless crystalline needles or dry powd. Sp. gr. 1.68. Decomposes on heating. Sol. water, alcohol. Uses—mfr. motion picture snow, dry colors, printing inks, cosmetic lotions, frosted papers, mineral water, ceramics, matches, explosive compositions; as mordant assist in dyeing and printing textiles; in fertilizers; fireproofing and waterproofing fabrics; sizing paper; warp sizing and weighing cottons; loading silks; standardising dyes; tanning leather; in medicine. Grades—tech.; C.P.; U.S.P.; crystal; granulated; dried.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294

MAGNESIUM SULFATE (cont'd)

Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Enco Chem Corp, N Y
Globe Chem Co, Cincinnati, O
Priddy, C W, & Co, Inc, Norfolk, Va
Speiden-Whitfield Co, N Y
Wise, Irving, & Co, Inc, N Y

MAGNESIUM THIOSULFATE

$MgS_2O_3{\cdot}6H_2O$. M.W. 244.53. White rhombic crystals. Use: medicinal.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543

MAGNESIUM TITANATE

★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

MAGNESIUM TRISILICATE

An extremely fine, soft, powder. Uses—mfr. pharmaceutical tablets for antacid and adsorbent usage.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Reheis Co Inc, Berkeley Hghts, N J — Summit 6-7110

MAGNESIUM ZIRCONIUM SILICATE

★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

MALEIC ANHYDRIDE (Toxilic Anhydride)

$C_4H_2O_3$. M.W. 98. Small white needle cryst. or fused material. M.P. 57°C. Sol. benzine hydrocarbons, acetone, ethyl ether, chloroform. Uses—mfr. synthetic resins, dye intermediates.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chemstar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

MALEIC ANHYDRIDE

Specifications: Briquettes or fused form; crystallizing point 52° C. min.; water solution (4 grams in 10 ml.), clear and colorless; glycer-omaleate resin, clear with slight amber color; iron 0.0005% max.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.

MONSANTO
CHEMICALS - PLASTICS

SERVING INDUSTRY... WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

MALEICS, MODIFIED RESINS

†Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Hercules Powder Co, 978 Market St, Wilmington, Del
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

†Crosby Chems, Inc, De Ridder, La — Osborn, C J, Co, N Y
Gillies & Loughlin, Los Angeles, Calif

MALONONITRILE (Methylene Dicyanide)

$CH_2(CN)_2$. M.W. 66.06. Colorless crystals. Use: medicinal.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400

MALTOSE

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

†Malt Diastase Co, Bklyn, N Y

MANGANESE (Metal)

Mn. Steel gray hard brittle lumps. Sp. gr. 7.20. M.P. 1260°C. B.P. 1900°C. Sol. dilute acids. Uses—mfr. manganese steel; in various alloys; in ceramics.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

†Gen Metallic Oxides Co, Jersey City, N J †Import Chem Co, Jersey City, N J

MANGANESE ACETATE (Manganous Acetate)

$Mn(C_2H_3O_2)_2.4H_2O$. Pale-red cryst. Sp. gr. 1.6. Sol. water, alcohol. Uses—mfr. bister; mordant in dyeing textiles—chemical catalyst; boiled oil, paint and varnish drier; tanning and finishing leather; in fertilizers. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

†Gen Metallic Oxides Co, Jersey City, N J †Import Chem Co, Jersey City, N J

J. MEYER & SONS

Manganese
Lead
Zinc
Aluminum
Copper
Iron
} Resinates

Manganese Borate
Manganese Carbonate
Varnish Gums

Sign of MEYERS DRYERS Quality

OFFICE & WORKS
4321 North 4th St.
Philadelphia 40, Pa.

MANGANESE BORATE (Manganous Borate)

$Mn_3B_2O_7$. Reddish-white powd. Sol. water. Uses—drier in varnishes and boiled oil. Grades—tech.; C.P.

Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Gen Metallic Oxides Co, Jersey City, N J †Import Chem Co, Jersey City, N J

MANGANESE CACODYLATE

†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543

MANGANESE CARBONATE (Manganese White, Dialozite)

$MnCO_3$. M.W. 114.93. Fine, light brown powd. Sp. gr. 3.125. Decomposes on heating. Sol. dilute acids. Uses—mfr. manganese salts; as pigment in paints and varnishes; in fertilizers; in medicine. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

†Gen Metallic Oxides Co, Jersey City, N J

MANGANESE CHLORIDE

$MnCl_2.4H_2O$. M.W. 197.91. Rose-red, deliq. cryst. Sp. gr. 2.01. M.P. 58°C. Sol. water; slightly sol. alcohol. Uses—mfr. dyes, chrome brown, electric batteries, fertilizer compositions, brown pigment; as catalyst in making intermediates; mordant in dyeing and printing textiles; paint and varnish drier; in medicine. Grades—tech.; recrystallized; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490

†Gen Metallic Oxides Co, Jersey City, N J †Import Chem Co, Jersey City, N J

MANGANESE DIOXIDE (Manganese Peroxide, Black Oxide of Manganese, Manganese Binoxide, Battery Manganese, Glass-Makers' Soap)

MnO_2. Green, amorp. powd. Sp. gr. 5.026. M.P. 390°C. Decomposes at 535°C. Sol. hydrochloric acid. Uses—mfr. oxygen, chlorine, Javel water, bleaching powd., manganates, permanganates, electric dry cells and batteries, brown glazes for ceramics and colored enamels for potteries, alloy steels, enameled iron ware, fertilizer compositions, pyrotechnics, match head and match box striking surface compositions, manganese, linoleate and resinate driers for paints and varnishes; as depolarizer in electricity; oxidizing agent in making synth. dyes, intermediates, organic chemicals, pharmaceuticals, purpurin, benzoic acid, benzaldehyde, hydroquinone; general oxidizing agent for various purposes; dyeing cottons in khaki colors; printing textiles; removing iron from water; drying oils; rubber compounding; neutralizing yellow iron color in glass; coloring glass; in medicine. Grades—as to percentage of MnO_2; lump; granulated; powdered; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Carus Chem Co Inc, Union & 8 Sts, La Salle, Ill — La Salle 1500
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

†Gen Metallic Oxides Co, Jersey City, N J Vitro Mfg Co, Pittsburgh, Pa
†Import Chem Co, Jersey City, N J

MANGANESE 2-ETHYLHEXOATE

†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

MANGANESE GLUCONATE

$Mn(C_6H_{11}O_7)_2.2H_2O$. Light pink powder or coarse pink granules. Uses—medicinal. Cont.—cans, fiber drums.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

MANGANESE GLYCEROPHOSPHATE

$MnC_3H_7O_6PO_4$. M.W. 225.04. White or slightly reddish, odorless powd. Sol. acids, slightly sol. water. Insol. alcohol. Uses—medicine.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

MANGANESE HYPOPHOSPHITE

$Mn(H_2PO_2)_2.H_2O$. Pink crystals or powder. Sol. water. Insol. alcohol. Grades technical; N.F. Uses—medicine. Shipping regulations—none.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

MANGANESE LINOLEATE

$Mn(C_{18}H_{31}O_2)_2$. Dark brown masses. Sol. hot linseed oil. Uses—mfr. pharmaceuticals; drier in paints, varnishes and boiled oil. Grades—tech.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

MANGANESE NAPHTHENATE

M.W. about 515. 11% metal. Brown solid; sol. hydrocarbons, vegetable oils, varnishes. Use: paint dryer.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Allan, Homer G, St. Louis, Mo
Cole & De Graf, San Fran, Calif
†Ferro Chem Corp, Bedford, O
†Gen Metallic Oxides Co, Jersey City, N J
†Industrial Lining Engrs, Inc, Pittsburgh, Pa

MANGANESE NITRATE

$Mn(NO_3)_2 + 6H_2O$. Pink, deliq. cryst. Sp. gr. 1.82. M.P. 25.8°C. B.P. 129°C. Decomposes 230°C. Sol. water. Uses—mfr. manganese dioxide, intermediate; coloring ceramics.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg 5-2151
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

MANGANESE OLEATE

$Mn(C_{18}H_{33}O_2)_2$. Brown, granular mass. Sol. ether, oleic acid. Slightly sol. alcohol. Uses—in varnishes.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

MANGANESE OXALATE

$MnC_2O_4 + 2H_2O$. White, crystalline powd. Sp. gr. 2.45. Decomposes at 150°C. Slightly sol. water. Uses—mfr. manganous oxide; as drier for paints, enamels and varnishes.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005

MANGANESE RESINATE

$Mn(C_{36}H_{66}O_4)_2$. Brownish-black, resin-like masses of flesh colored, amorp. powd. Sol. hot linseed oil, chloroform. Uses—drier paints, varnishes, boiled oil. Grades—tech.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

MANGANESE STEARATE

Mn $(C_{18}H_{35}O_2)_2$ Pink Powder, Melting Point 100-110°C. Mol. wt. 621. Ash 13.4, Solubility, Insol. in polar liquids, partly sol; in petroleum oils and forms gels with aromatic and aliphatic hydrocarbons. Packaging, 50 pound cartons. Uses—wax and grease compounding. As stearic soap for gramaphone records, insulators, vanishing cream and cosmetics.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

MANGANESE SULFATE (Manganous Sulfate)

a. $MnSO_4$ (anhydrous). b. $MnSO_4.4H_2O$. (tetrahydrate). Pale rose-red, efflorescent prisms of powd. Sp. gr. a. 3.25; b. 2.11. Decomposes on heating and remains stable between 18 and 30°C. Sol. water. Uses—mfr. manganese salts, ceramics, red glazes for potteries and porcelains, chrome brown and other synthetic dyes, paper, fertilizer compositions; mordant in dyeing and printing textiles; general oxidizing agent; drier for paints, varnishes and boiled oil; in oxalate and borate driers; in medicine. Grades—tech.; C.P.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
†Carus Chem Co Inc, Union & 8 Sts, La Salle, Ill — La Salle 1500
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
†Tennessee Corp, P O Box 2205, Atlanta, Ga — Walnut 4210
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531

Bonewitz Chems, Inc, Burlington, Iowa
†Gen Metallic Oxides Co, Jersey City, N J

MANGANESE TALLATE

†Industrial Lining Engrs, Inc, Pittsburgh, Pa

MANGANESE TITANIUM

★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

MANGANOUS OXIDE (Manganese Oxide, Manganese Protoxide)

MnO. Grass-green powd. Sp. gr. 5.09-5.18. Melts at white heat. Sol. acids. Uses—mfr. dry batteries, potteries, porcelains, colored glass, paper; as chemical catalyst; drier in paints and varnishes; assist in printing and dyeing textiles; tallow bleaching; in medicine. Grades—tech.

Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-5874
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610

†Gen Metallic Oxides Co, Jersey City, N J
†Import Chem Co, Jersey City, N J

MANGROVE BARK

Bark of Rhizophora mucronata. Habitat—West Africa, Borneo. Uses—mfr. tanning extracts; in tanning leather. Grades—whole; ground.

Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910

MANGROVE EXTRACT—see also Cutch

Extract of Mangrove bark containing 25% tannin. Uses—tanning leather. Grades—liq. and solid (cutch).

†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Colony Import & Export Corp, 11 E 44 St, N Y — Murray Hill 2-3160

MANNITOL (Mannite)

$CH_2OH(CHOH)_4CH_2OH$. Fine white crystals. M. P. 166-167°C. B. P. 290-295°C. at 3-3½ mm. Sp. gr. 1.487. Non-hygroscopic. Sol. water; sl. sol. lower alcohols and amines; insol. most organic solvents.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

ATLAS MANNITOL—$C_6H_8(OH)_6$

Versatile hexahydric alcohol—starting material or modifier for resins and other synthesis. Used in foods and drugs as an edible dusting compound and anti-caking agent.

See also: Emulsifiers
Sorbitol

Industrial Chemicals Department
ATLAS POWDER COMPANY
Wilmington 99, Delaware

Atlas Powder Company, Canada, Ltd., Brantford, Canada

MANNITOL BORATE

†Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141

MANNITOL ESTERS (Mannides, Mannitans, etc.)

†Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241

MANNITOL HEXANITRATE (Hexanitro mannite, HNM)

$C_6H_8(ONO_2)_6$. Colorless crystals. M.P. 106.5-107°C. Ignition Temp. 215-225°C. Sol. alcohol, acetone, ether; insol. water.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600

MANNOSE

†Consolidated Midland Corp, Katonah, N Y — Katonah 1010

MARBLE FLOUR

†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749

†Industrial Minerals & Chem Co, Berkeley, Calif

MELAMINE

$C_3N_3(NH_2)_3$. A trimer of cyanamide. Mol. wt. 126. M.P. 354°C. Sp. gr. dm 1.57. Solubility in water, 0.5% at 25°C., 5.5% at 90°C. Insoluble in inert organic solvents. Difficultly soluble in polar solvents Uses—for synthetic resins and chemical synthesis.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
★†Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

FINE CHEMICALS • DRUGS

MENTHOL U.S.P.

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BENDIX CHEMICAL CORPORATION

422 LEXINGTON AVE., N.Y. 17, N.Y. MUrray Hill 3-3202

MENTHOL (Natural)

$C_{10}H_{19}OH$. Peppermint, crystalline white solid. Sp. gr. 0.890; M.P. 44.5°C.; B.P. 215.5°C. Sol. alcohol, ether, very slightly in water. Uses—food preparations, confectionery, candy, cosmetics, in medicine, etc. Grades—U.S.P. Cont.—cases (tins). See also Menthol, Synthetic, Chemicals Section.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709

MENTHOL U.S.P.

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★ Offices in All Principal Cities ★

Dalton-Cooper Inc, 200 W 34 St, N Y	Longacre 4-2910
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y	Hanover 2-3750
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110

MENTHOL (Natural) (cont'd)

Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Parker, Herbert H, 2 Bway, N Y	Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9610
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200

MENTHOL

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Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Enco Chem Corp, N Y	†Siber, Hegner & Co, Inc, N Y
†Maschmeijer, Jr, A, Inc, N Y	Weinstein, Joseph, Phila, Pa

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43 West 16th Street, New York 11, N. Y.

MENTHOL (Synthetic)

For description see Menthol (Natural).

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756

MENTHOL

ALL GRADES and other
Chemicals, Solvents and Coal Tar Products

Republic Chemical Corp.
94 Beekman Street, New York 7
Cable Address: Jaynivrad

GEORGE UHE CO., INC.

75 EIGHTH AVENUE
NEW YORK 14, N.Y.

Established 1921

BROKERS and SELLING AGENTS

MENTHOL (Synthetic) (cont'd)

Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Tutuur & Co, Inc, 60 Wall St, N Y	Digby 4-4660
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

†Maschmeijer, Jr, A, Inc, N Y

MENTHYL SALICYLATE (Samol, Salimenthol)

$C_6H_4(OH)COOC_{10}H_{19}$. Colorless liquid. Miscible usual organic solvents. Insol. water. Uses—medicinal.

Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120

MENTHYL VALERATE

†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959

†Maschmeijer, Jr, A, Inc, N Y

MERBROMIN

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

2-MERCAPTOETHANOL

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000

MERCURIAL OINTMENT (Blue Ointment)

Finely divided mercury in a wool fat-petroleum base. Use: medicine.

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800

†Elk, B R, Co, Inc, Garfield, N J

MERCURIC ACETATE

$Hg(CH_3COO)_2$. M.W. 318.66. White crystals or powder; sensitive to light. POISON. Use: for mercuration of organic compounds.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
DeLamar-Hendrey Chem Co. Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959

MERCURIC CHLORIDE (Corrosive Sublimate, Mercury Bichloride, Mercury Chloride, Mercury Protochloride, Hydrargyri Chloridum Corrosivum, Hydrargyri Perchloridum)

$HgCl_2$. M.W. 271.52. White, crystalline powd. Sp. gr. 5.42. M.P. 275°C. B.P. 301°C. Sol. water, alcohol, ether, pyridine, acetic acid ester.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Stieh, W M, & Co, Inc, 20 Vesey St, N Y	Worth 4-4265

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MERCURIC IODIDE (Mercury Biniodide)

HgI_2. M.W. 454.44. M.P. 253° C. Scarlet red powd. Sol. alcohol, ether, in water in presence of solubie iodides. Uses—Preparing Mayer's alkaloidal reagent & Nessler's solution, medicine.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Stieh, W M, & Co, Inc, 20 Vesey St, N Y	Worth 4-4265

MERCURIC OXIDE RED (Mercury Red Precipitate, Red Precipitate)

HgO. Orange-red, crystalline powd. Sp. gr. 11.00 to 11.29. Decomposes on heating. Sol. acids. Uses—mfr. marine and antifouling paints, mercury salts, intermediates, organic chemicals, pomades, perfume preparations, grease paints; as paint and varnish pigment; oxidizing agent in chemical processes; ceramic coloring and decorating porcelains; as laboratory reagent; depolarizer in electric batteries; in medicine. Poisonous. Grades—U.S.P.; mass; powdered; C.P.

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Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Stieh, W M, & Co, Inc, 20 Vesey St, N Y	Worth 4-4265

†Quicksilver Prods Assoc, Inc, San Fran, Calif

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MERCURIC OXIDE YELLOW (Yellow Precipitate)

HgO. Light, amorphous, orange-yellow powder. Stable in air but turns dark on exposure to light. Sp. gr. 11.03 at 27.5°C. M.P. decomposes. Grades C.P.; U.S.P. Uses—medicine.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980

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Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Stieh, W M, & Co, Inc, 20 Vesey St, N Y	Worth 4-4265
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

†Quicksilver Prods Assoc, Inc, San Fran, Calif

MERCUROUS CHLORIDE (Calomel, Mercury Monochloride, Mercury Chloride Mild, Hydrargyri Chloridum Mite, Hydrargyri Subchloridum, Black Precipitate, Hahnem Auris Mercury)

Hg_2Cl_2. White, crystalline or amorp. powd. Sp. gr. 6.993-7.18. M.P. sublimes at 383°C. B.P. 382.5°C. Slightly sol. hot alcohol. Uses—mfr. pyrotechnics, gold colors in ceramics; as laboratory reagent; germicide; in medicine. Grades—U.S.P.; C.P.; tech.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
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MERCUROUS IODIDE (Green Mercury Protoiodide)

HgI. M.W. 327.52. Greenish-yellow, heavy, amorphous powd. Insol. water, alcohol, ether. Uses—medicine.

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Stieh, W M, & Co, Inc, 20 Vesey St, N Y	Worth 4-4265

MERCUROUS OXIDE

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
†City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
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Hg. Silvery liq. Sp. gr. 13.5933. B.P. 357.33°C. Solidifies 38.85°C. Sol. acids. Uses: mfr. mercury salts, calomel, corrosive sublimate, mercury fulminate, numerous mercuro pharmaceuticals, metallic amalgams, boiler scale preventatives, dental amalgams, vermillion red pigments; cathode in electrochemical processes; catalyst in nitrations; extracting gold and silver from ores; electroplating of metals; silvering mirrors; in physical and scientific instruments, barometers, thermometers, hydrometers, chemical apparatus, thermostats, gas governors; for tin in type metal and stereo alloys; in mercury vapor lamps; arc rectifiers; ultra violet rays; electrical apparatus; in medicine. Grades—U.S.P.; tech.; distilled; redistilled; C.P.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Doggett, Stanley, Inc, 75 Varick St, N Y	Walker 5-1051
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill	Randolph 6-0232
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525

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McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Stieh, W M, & Co, Inc, 20 Vesey St, N Y	Worth 4-4265
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

†Drug Labs, Phila, Pa
Hagstoz, T B, & Son, Phila, Pa
†Quicksilver Prods Assoc, Inc, San Fran, Calif

QUICKSILVER
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20 VESEY ST. N.Y.C. WO 4-4265

MERCURY ACETATE

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
Stieh, W M, & Co, Inc, 20 Vesey St, N Y	Worth 4-4265

MERCURY AMMONIATED (Ammoniated Mercury Chloride, White Precipitate, Amido-Mercuric Chloride)

$HgNH_2Cl$. M.W. 252.08. Contains 78-80% Hg. White powd. Earthy, styptic, metal, taste. Sol. acids. Insol. water, alcohol.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Stieh, W M, & Co, Inc, 20 Vesey St, N Y	Worth 4-4265

MERCURY BISULFATE (Mercury Sulfate, Mercury Persulfate)

$HgSO_4$. White, crystalline powd. Sp. gr. 6.466. Decomposes at red heat. Sol. in HCl, hot dilute H_2SO_4, and concentrated sol. NaCl. Uses—mfr. mercury salts, electric batteries, mercuric chloride, mercurous chloride, various mercuro pharmaceuticals; as catalyst in making intermediates; extracting gold and silver from ores. Grades—medicinal; tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000

MERCURY CYANIDE (Mercuric Cyanide)

$Hg(CN)_2$. M.W. 252.65. Colorless, transparent prisms. Sp. gr. 4.018. M.P. decomposes. Sol. water, alcohol. Grades—technical, C.P. Uses—germicidal soaps, manufacturing cyanogen gas, photography.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
Stieh, W M, & Co, Inc, 20 Vesey St, N Y	Worth 4-4265

MERCURY NAPHTHENATE

M.W. about 660. 30% metal. Sol. hydrocarbons, vegetable oils. Uses: fungicide and mildew preventive.

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
†Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J	Elizabeth 3-2345
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552

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†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Stieh, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265

MERCURY SULFIDE RED (Vermilion, Mercury Blend, Patent Red, Artificial Cinnabar, Chinese Vermilion, Red Mercuric Sulfuret, Quicksilver Vermilion, Liver Ore)

HgS. M.W. 232.67. Fine, bright scarlet powd. Sp. gr. 8.06-8.12. Sublimes at 580°C. Insol. Uses: for coloring sealing wax, plastics; as fine pigment for paints, varnishes, stains, water colors; as rubber pigment; in medicine. Grades—English; Chinese; American; C.P.; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

MESITYL OXIDE (Methylisobutenylketone, Isopropylideneacetone)

$(CH_3)_2C:CHCOCH_3$. M.W. 98.08. Colorless, oily liq. Sp. gr. 0.861 (15°C.). B.P. 128.7°C. Sol. alcohol, ether. Uses—mfr. intermediates organic chemicals. Grades—tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

META Compounds—listed under first word following Meta

METALDEHYDE (Metacetaldehyde)

$(CH_3CHO)_4$. M.W. 132.12. White prisms. M.P. 246.2°C., in sealed tubes; sublimes at 112-116°C., with partial depolymerization. Sol. benzene, chloroform. Slti. sol. alcohol, ether. Insol. water. Uses: as solid fuel; agricultural fungicide and disinfectant; extermination of slugs and snails; sed. and hypn. in medicine. Grade—tech.; available in tablet form only.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307

METALS, LOW MELTING

Various metals and alloys with low melting points. Used as fuses, for automatic action to control temperatures, etc.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
†Federated Metals Div, N Y — Indium Corp of Amer, N Y

METALS, PASTE

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

METALS, POWDER

Within comparatively recent years metals in the finely powdered state have been developed the principal ones being, aluminum, antimony, bismuth, brass, bronze, cadmium, chromium, chromium (reduced), copper, gold, iron, iron (hydrogen reduced), lead, manganese, molybdenum, nickel, palladium, silicon, silver, tellurium, tin, titanium, tungsten, tungsten (carbon reduced), vanadium zinc. See also Bronze Powder, Bismuth Powder, Chromium Powder, Copper Powder, Nickel Powder, etc.

METAL POWDERS

ALL MESHES

Aluminum	Chromium	Magnesium	Silver
Antimony	Cobalt	Manganese	Solder
Bismuth	Copper	Molybdenum	Steel
Brass	Ferro	Nickel	Tin
Bronze	Iron	Selenium	Tungsten
Cadmium	Lead	Silicon	Zinc, Etc.

Putting Mettle into Metal Since 1896

BELMONT
SMELTING & REFINING WORKS, Inc.
322 Belmont Avenue Brooklyn 7, N.Y.
Telephone—Dickens 2-4900 Established 1896

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
†Metal Hydrides, Inc, 16 Congress St, Beverly, Mass — Beverly 1875
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

Fansteel Metallurgical Corp, N Chicago, Ill †Metals Refg Co, Hammond, Ind

Metal Hydrides INCORPORATED

METAL POWDERS

CHROMIUM COLUMBIUM
TANTALUM THORIUM
TITANIUM ZIRCONIUM

Complete technical data on request to

METAL HYDRIDES INCORPORATED
CONGRESS STREET • BEVERLY, MASS.

METALS, WHITE CASTING

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

METHALLYL CHLORIDE

†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400

METHANE (Marsh Gas, Methylhydride)

CH_4. M.W. 16.04. Colorless, inflammable gas. d (air = 1) = 0.553. F.P. —184°C. Uses—mfr. formaldehyde; in organic synthesis; a constituent of illuminating gas.

Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

METHANOL (Methyl Alcohol, Wood Alcohol, Columbian Spirits, Acetone Alcohol, Wood Naphtha, Wood Spirits, Colonial Spirits, Methyl Hydrate, Methyl Hydroxide, Pyroxylic Spirit, Carbinol)

CH_3OH. M.W. 32.03. Colorless, inflam. liq. Sp. gr. 0.810 (0°C.). F.P. —97.8°C. B.P. 64.7°C. Sol. water, alcohol, ether. Poisonous when taken internally. Uses—mfr. methyl esters, methyl chloride, methyl sulfate, formaldehyde, dimethyl aniline, intermediate and organic chemicals, varnishes, enamels, paint removers, artificial leather, polishing and cleansing compositions, various dyestuffs, spirit varnishes; denaturant for ethyl alcohol; laboratory reagent; anti-freeze agent for

METHANOL

Pure : 95%—97% : Denaturing

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Phone: MUrray Hill 2-3100

METHANOL (cont'd)

automobile radiators; reagent in finishing textiles; solvent for gums, resins, shellac, rubber cement, celluloid, smokeless powd. Grades—95%, 97%; pure, synth.; Acetone Free; Absolute, 99.5%.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Galwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2810
†Spencer Chem Co, 1004 Baltimore Av, Kansas City, Mo	Victor 2822

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METHANOL (cont'd)

Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
†Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

Baker & Gaffney, Phila, Pa
Cliffs Dow Chem Co, Marquette, Mich
Horn, Jefferys & Co, Burbank, Calif
Houghton, Philip A, Inc, Boston, Mass
McClellan, G C, & Co, Boston, Mass
Moser, George, & Son, Inc, Detroit, Mich
Phillips & Martin Co, Chicago, Ill

dl METHIONINE

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Dow Chem Co, Midland, Mich	Midland 500
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
†Winthrop-Stearns Inc, 1450 Bway, N Y	La 4-6400

METHOXY ETHYL ACETYL RICINOLEATE

†Baker Caster Oil Co, 119 Bway, N Y	Digby 9-0500
†Ohio-Apex Inc, Nitro, W Va	Nitro 152
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420

†Decoy Prods Co, Cambridge, Mass

METHOXY ETHYL OLEATE

$C_8H_{17}CHCH(CH_2)_7COOC_2H_4OCH_3$. M.W. 340; B.P. at 4 mm. 195-225°C.; lbs. per gal. 7.51; Sp. gr. at 20°C. 0.902. Light yellow ester. Uses—plasticizer for chlorinated rubber; water repellent.

Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800

METHYL ABIETATE

†Hercules Powder Co, 978 Market St, Wilmington, Del

METHYL ABIETATE, HYDROGENATED

†Hercules Powder Co, 978 Market St, Wilmington, Del

METHYL ACETATE

$CH_3COO.CH_3$. Colorless liq., fragrant odor. Sol. alcohol, ether. Sparingly sol. water. Uses—solvent in cellulose esters, varnishes, lacquers, cosmetics, perfumes, nitrocellulose plastics, flavoring extracts, artificial leather, synth. dyestuffs; chemical reagent and solvent. Grades—tech. in 2 grades. 82 and 99% by weight. Sp. gr. .906-910 at 20°/20°C.; B.R. 53°C.-56°C.; weight per gal., 7.55 lbs. (20°C.). Sp. gr. 99% grade, .930-940 (20°/20°C.); B.R. 55°C.-58°C.; weight per gal., 7.779 lbs. (20°C.).

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760

Wilkoff, David L, Co, N Y

METHYL ACETOACETATE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000

METHYL ACETONE—see also Methyl Ketone

Mixture methyl acetate, acetone, and methyl alcohol. Colorless liq. Uses—extr. extracts, artificial leather, rubber cements, gas mantels, various cement compositions, paint; solvent in extracting perfumes, varnish remover; solvent for gums, resins, etc., and nitrocellulose; rubberizing fabrics. Grades—tech.

Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420
†Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333

Cliffs Dow Chem Co, Marquette, Mich

METHYL ACETOPHENONE

$CH_3C_6H_4COCH_3$. Colorless liq. B.P. 223°C. Sol. benzene, insol. water. Uses—mfr. perfumery.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570

METHYL ACETOPHENONE (cont'd)

Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

METHYL ACETYLENE (1-Propyne)

$CH_3{\cdot}C{\equiv}CH$. M.W. 40.06. Colorless gas. Use: organic syntheses.

†Farchan Research Labs, 609 E 127 St, Cleveland, O	Glenville 1-8749

METHYL ACRYLATE

$CH_2{:}CHCO_2CH_3$. M.W. 86. B.P. 80°C. Uses: prep. of polymers; intermediate for prep. of pharmaceuticals.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
†Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860

METHYL AMINE (Aminomethane)

CH_3NH_2. 33% to 37% sol. M.W. 31.05. Sol. alcohol. Uses: dyestuffs and synthetic intermediate; base; methylating agent.

†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860

CH_3NH_2 $(CH_3)_2NH$ $(CH_3)_3N$

METHYLAMINES . . .

Low Price—Low Equivalent Weight Available Now!

PROPERTIES AND USES

	Boiling Point	Uses
MONOMETHYLAMINE	—6.7°C.	Dyes, pharmaceuticals, surface-active agents, photographic chemicals.
DIMETHYLAMINE	7.2°C.	Fungicides, rubber accelerators, surface-active agents, quaternary ammonium bactericides, dyes, pharmaceuticals.
TRIMETHYLAMINE	3.5°C.	Pharmaceuticals, quaternary ammonium compounds.

CHEMICALS FOR INDUSTRY

ROHM & HAAS COMPANY

WASHINGTON SQUARE, PHILADELPHIA 5, PA.

METHYL AMINE HYDROCHLORIDE

$CH_3NH_2.HCl$. M.W. 67.51. White cryst. Very sol. water, sol. alcohol. Insol. ether. Uses—dyestuffs and synthetic intermediate; methylating agent.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500

METHYL AMINO PYRIDINE

†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461

METHYL AMYL ACETATE (Methyl Isobutyl Carbinol Acetate)

$(CH_3)_2CH.CH_2CH(O_2CCH_3)CH_3$. Water white liquid. Solubility in water, 0.8% at 20°C. Soluble in alcohols, hydrocarbons and most or-

METHYL AMYL ACETATE (cont'd)

ganic liquids. Sp. gr. .853-.859 at 20°/20°C. B.R. 139°-147°C. Acidity less than .02% calc. as acetic. Ester content 88-92%. Flash point 45°C. Uses: high boiling lacquer solvent, excellent "blush register." Grades—tech.

D P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

METHYL n-AMYL KETONE

$CH_3CO(CH_2)_4CH_3$. Water white high boiling ketone (151.0°C.). Sp. gr. 0.816 to 0.821 at 20/20°C. B.R. (760 min.) below 147°C., none; above 154°C., none. Toluol dilution ratio is 3.9 with half second nitrocellulose. Acidity, not more than 0.05% as acetic acid. Purity, not less than 95%. Non-volatile matter, not more than 0.005 g. per 100 cc. Dryness, miscible with 19 vol. 60 deg. Bé. gasoline at 20°C. Misc. with usual lacquer solvents but only slightly in water. Uses: solvent for nitrocellulose, as well as resins used in lacquer; imparts excellent blush resistance.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000

METHYL ANILINE (Monomethylaniline)

$C_6H_5NH(CH_3)$. M.W. 107.08. Colorless to slightly yellow cryst. Turns brown on exposure to air. Sp. gr. .988. Uses—organic synthesis.

Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

METHYL ANTHRANILATE (Methyl Ortho-Aminobenzoate)

$NH_2C_6H_4COOCH_3$. M.W. 151.1. Sp. gr. 1.168. Colorless, fluorescent crystals or liq. with an odor similar to grapes. Slowly turns yellow on exposure to sunlight. B.P. 135.5°C. Sol. most organic solvents; insol. water. M.P. 24.5°C. Uses—mfr. synthetic grape flavorings, perfume combinations.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dow Chem Co, Midland, Mich — Midland 500
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

beta-METHYL ANTHRAQUINONE

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000

METHYL BENZOATE (Essence of Niobe, Oil of Niobe)

$C_6H_5COOCH_3$. M.W. 136.10. Colorless, transparent liq. Sol. alcohol, ether. Sp. gr. 1.094 at 15°C. B.P. 199°C. Uses: mfr. perfumes.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-360
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

METHYL BROMIDE (Bromomethane)

CH_3Br. M.W. 94.9. Colorless, non-inflammable gas. Weight per gal. 14.4 lbs. at 0°C. B.P. at 14.7 lbs., 4.5°C. M.P. —93°C. Miscible with most organic solvents; forms a voluminous crystalline hydrate with cold water. Uses—as a refrigerant; mfr. dyes and pharmaceuticals.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Dow Chem Co, Midland, Mich — Midland 500
†Eston Chems Inc, 3100 E 26 St, Los Angeles, Calif — Angelus 9-8183
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Le Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Michigan Chem Corp, St Louis, Michigan — 41
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Bartlett Chems, Inc, New Orleans, La — Beechem Labs, St Johns, Mich

2-METHYL-3-BUTYN-2-OL (Dimethyl Ethynyl Carbinol)

$HC{\equiv}CC(OH)(CH_3)_2$. M.W. 84.11. Colorless liquid, characteristic odor. Uses: organic synthesis, plastics.

†Farchan Research Labs, 609 E 127 St, Cleveland, O — Glenville 1-8749

METHYL BROMIDE . . . for Fumigation
METHYL CHLORIDE . for Refrigeration

OTHER ESTON PRODUCTS: Refrigerants — Space Fumigants — Soil Fumigants — Insecticides — Low Pressure Aerosols.

ESTON CHEMICALS
ESTON CHEMICALS, INC.
3100 E. 26th St. LOS ANGELES 23

METHYL "CELLOSOLVE"* ACETYL RICINOLEATE (2-Methoxyethyl 12-Acetoxyricinoleate)

Reg. Trade-Mark—Carbide & Carbon Chemicals Corp.

$C_6H_{13}CH(OOC\text{-}CH_3)CH_2CH{=}CH\text{-}(CH_2)_7COOCH_2CH_2OCH_3$. M.W. 398. Clear, bright low viscosity fluid. Use: plasticizer.

†Baker Caster Oil Co, 119 Bway, N Y — Digby 9-0500
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

METHYL "CELLOSOLVE"* OLEATE

(*Reg. Trade-Mark—Carbide & Carbon Chemicals Corp.*)

$C_{21}H_{40}O_3$. M.W. 340.5. Pale amber fluid. Sol. ketones, esters, aromatic and aliphatic hydrocarbons; insol. water. Uses: plasticizer for nitrocellulose, ethyl cellulose, synthetic resins.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420

METHYL "CELLOSOLVE"* RICINOLEATE (2-Methoxyethyl Ricinoleate)

(*Reg. Trade-Mark—Carbide & Carbon Chemicals Corp.*)

$C_6H_{13}\text{-}CHOH\text{-}CH_2CH{=}CH\text{-}(CH_2)_7COOCH_2CH_2OCH_3$. M.W. 356. Clear, bright, low viscosity liquid. Use: plasticizer.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

METHYL "CELLOSOLVE"* STEARATE

Reg. Trade-Mark—Carbide & Carbon Chemicals Corp.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Ohio-Apex Inc, Nitro, W Va — Nitro 152

METHYL CELLULOSE

Cellulose ester. Greaseproof, flavor-retaining, non-inflammable film; unaffected by organic acids. Uses—emulsifying agent for oils, waxes, and fats; thickener, binder, and adhesive in solution form.

METHOCEL*
DOW METHYLCELLULOSE
DOW
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Midland Michigan
Producing over 600 Chemical Products
Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.
*Trademark Reg. U.S. Pat. Off. See listing ad for other products

METHYL CELLULOSE (cont'd)

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Dow Chem Co, Midland, Mich	Midland 500
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

METHYL CHLORIDE (Chloromethane, Artic Essence)

CH_3Cl. M.W. 50.48. Colorless gas, ethereal odor. Gas compressed in cylinders to colorless liq. Sp. gr. 0.92. Solidifies —97.6°C. B.P —23.7°C. Sol. water, chloroform, alcohol, ether. Uses—mfr. intermediates, organic chemicals, perfume preparations, thermometers, airplane radiators; active refrigerant; solvent and extracting medium for essential oils; in medicine. Grades—technically pure.

†Ansul Chem Co, Marinette, Wis	Marinette 216
†Chaplain & Bibbs, 75 West St, N Y	Bowling Green 9-5636
†Dow Chem Co, Midland, Mich	Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
†Eston Chems Inc, 3100 E 26 St, Los Angeles, Calif	Angelus 9-8183
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Virginia Smelting Co, W Norfolk, Va	Portsmouth 7-3441
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio	

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METHYL CHLORIDE

IMMEDIATELY AVAILABLE

Reagent Grade... in tank cars... multi-unit cars and all standard size cylinders.

PURITY 99.96% (by weight)

Write for information describing the use of Methyl Chloride as a Methylating agent, solvent, and in the preparation of Grignard Reagent. etc.

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ANSUL CHEMICAL COMPANY
INDUSTRIAL CHEMICALS DIVISION, MARINETTE, WISCONSIN
60 E. 42nd St., New York—Lincoln-Liberty Bldg., Broad & Chestnut Sts., Philadelphia 7, Pa.

METHYL CHLOROACETATE

$CH_2ClCOOCH_3$. M.W. 108.5. Clear, colorless liquid with sweetish odor, irritating to the eyes and mucous membranes. Sp. gr. 1.240 at 20/4°C. Weight per gal., 10.3 lbs. at 20°C. B.P. 130.0-132.0°C. Miscible with most organic solvents, very slightly sol. water. Uses: organic syntheses.

†Dow Chem Co, Midland, Mich	Midland 500
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000

METHYL CINNAMATE

$C_6H_5CHCHCOOCH_3$. M. W. 162.13. M. P. 34°C. B. P. 263°C. Strawberry-like odor. Uses—confectionery, perfumery.

†Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

METHYL COUMARIN

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J	Hackensack 2-2020
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

METHYL CROTONATE

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Algo Chem Co, Detroit, Mich	

METHYL CYANOACETATE (Malonic Methyl Ester Nitrile)

$CNCH_2COOCH_3$. M.W. 99. Colorless liquid. Slightly sol. water; infinitely sol. alcohol, ether. Uses: organic and pharmaceutical synthesis; intermediate.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661

· KAY-FRIES ·

★ methyl cyanoacetate ★

★ methyl phenylacetate ★

American-British Chemical Supplies, Inc.

180 MADISON AVE. NEW YORK 16, N. Y.

Selling Agents For

KAY FRIES CHEMICALS INC.

METHYL CYANOACETATE (cont'd)

†Dow Chem Co, Midland, Mich	Midland 500
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661

METHYL CYCLOHEXANE

C_7H_{14}. M.W. 98.18. Water-white (less than 20 Hazen) liquid, 95% distilling within 2.0° C.; boiling range, 100.0-103.0° C. Leaves no residue on evaporation, and has no acidity. Water content less than 0.2%; Sp. Gr. at 25/4° C., 0.763-0.766. Flash point, less than 10° F. Produced by hydrogenating toluol. Used as a solvent for many oils, fats, waxes and other materials, such as crude rubber, bitumen, and ethyl cellulose. May also be used as a degreasing solvent. Lbs. per gal., 6.4.

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
†Dow Chem Co, Midland, Mich	Midland 500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600

METHYL CYCLOHEXANOL (Hexahydrocresol)

($C_6H_{10}CH_2OH$). M.W. 114.11. Colorless, non-explosive, slightly toxic liq. Pounds per gal. 7.75. Sp. gr. 0.930; refract. index 1.455-1.465. B.P. 170-190°C. Flash Point 68°C. Sol. in all organic solvents. Uses: as a plasticizer; solvent for paints, lacquers.

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y	6655

METHYL CYCLOHEXANONE

($CH_3C_6H_9O$). Water white to very pale yellow liq., with odor resembling acetone. Pounds per gal. 7.70. Sp. gr. 0.925; refract. index 1.440-1.450. B.P. 160-170°C. Flash Point 53°C. Sol. water up to 3%; sol. organic solvents; non-toxic. Uses—solvent for nitrocellulose, rubber, ester gum, Kauri, phenol formaldehyde resins, glyptals, Rezyls and other resins. Specialy recommended for crystallizing lacquers.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970

METHYL CYCLOPENTANE

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600

METHYL-2,4-DICHLOROPHENOXYACETATE

†Kolker Chem Wks Inc, 80 Lister Av, Newark, N J	Market 2-5458
†Riverdale Chem Co, 324 E 147 St, Harvey, Ill	Riverdale 1880

METHYL DICHLOROSTEARATE

Approx. formula, $C_{17}H_{33}Cl_2COOCH_3$. M.W. 367. Light yellow oily liquid; slight fatty odor. Uses: addition agent for lubricants; chemical intermediate; plasticizer for coating materials where high temperature stability is not essential.

★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y	6655

METHYL DIETHANOLAMINE

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000

METHYL DIOXOLANE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000

METHYL ESTER of TALL OIL

†Hercules Powder Co, 978 Market St, Wilmington, Del	

METHYL ETHER OF DIETHYLENE GLYCOL

$CH_3OCH_2CH_2OH$. Colorless odorless liq., completely miscible with water. B.P. 124.3°C. Sp. gr. .9660 at 20°/20°C. Uses—lacquer solvent and thinner, dye solvent, dye leveling agent in the dyeing of leather, sealing of moisture-proof wrapping materials, preparation of non-aqueous wood stains.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000

METHYL ETHER OF ETHYLENE GLYCOL

$CH_3OCH_2CH_2OH$. Colorless odorless liq., completely miscible with water. B.P. 124.3°C. Sp. gr. .9660 at 20°/20°C. Uses—lacquer solvent and thinner, dye solvent, dye leveling agent in the dyeing of leather, sealing of moisture-proof wrapping materials, preparation of non-aqueous wood stains.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

METHYL ETHYL KETONE

$CH_3COC_2H_5$. Colorless liq., acetone-like odor. Sp. gr. 0.808. B.P. 79.6°C. Sol. water, alcohol, ether. Uses—mfr. intermediate chemicals, dimethylglyoxime, smokeless powd.; general solvent in place of acetone. Grades—C.P.; tech.

METHYL ETHYL KETONE

Much lower evaporation rate than acetone, which reduces fire hazards and handling losses. Clear, colorless liquid belonging to the medium boiling solvents. Used in the manufacture of nitrocellulose cements, artificial leathers, fabric coatings, photographic film, varnish and lacquer removers, and cleaning liquids; as a solvent for dewaxing lubricating oils, vinyl resins, cellulose acetate, and synthetic rubbers.

ENJAY COMPANY, INC.
15 West 51st St.
New York 19, N. Y.
Write or phone for further information.

ENJAY

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200

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METHYL ETHYL KETONE (cont'd)

Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Gulwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
LaPlace, L J & N, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 3-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

Ackerman, J C, Co, Pittsburgh, Pa — Horn, Jefferys & Co, Burbank, Calif

METHYL FORMATE (Methyl Formic Acid Ester)

$C_2H_4O_2$. M.W. 60.1. Colorless liq. Sp. gr. 0.973. M.P. —100°C. B.P. 32°C. Sol. water, alcohol, ether. Uses: in organic synthesis; fumigation products.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

METHYL HEPTINE CARBONATE

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Destrosses St, N Y — Walker 5-1110
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

METHYL HEXYL KETONE (Methylhexanone, Hexylmethyl Ketone)

$CH_3CO(CH_2)_5CH_3$. Pure, water-white liq., pleasant odor, insol. water, sol. alcohol, hydrocarbons, esters, etc. Sp. gr. 0.81 (25°C.); distil. range 166-173°C. Uses: mfr. perfumes, synthesis perfume materials, as an anti-blushing agent for nitrocellulose lacquers.

Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

METHYL HYDROQUINONE

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

METHYL p-HYDROXY BENZOATE

$HOC_6H_4CO_2CH_3$. White, cryst. powd., odorless, practically tasteless, non-toxic. M.P. 126°C. Sol. in boiling water approx. 1-20; in water at 20° 1-400. Uses—as a general preservative and anti-oxidant, especially in the cosmetic and drug fields.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

METHYL IODIDE (Iodomethane)

CH_3I. Colorless liq. B.P. 42.5°C. Sp. gr. 2.279. Insol. water; sol. alcohol, ether. Uses—methylating agent, organic synthesis, pharmaceuticals. Grades—C.P.; tech.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120

†Algo Chem Co, Detroit, Mich — †Drug Labs, Phila, Pa

METHYL IONONE

$C_{14}H_{22}O$. M.W. 206. Yellow liquid. B.P. 140-150° C. at 20 mm. Uses: perfume formulations; soaps; cosmetics.

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570

METHYL IONONE (cont'd)

†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

METHYL ISOBUTYL CARBINOL (4-Methyl, 2-Pentanol)

$(CH_3)_2CHCH_2CHOHCH_3$. Water-white liquid soluble in alcohol, hydrocarbons and most organic liquids. Solubility in water 1.73% at more than .05% calc. as acetic acid. F.P. 46°C. Uses—lacquers, mutual solvent, preparation synthetic resins. Grades—tech.

Amer Cyanamid Co, Mineral Dressing Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
Horn, Jefferys & Co, Burbank, Calif — Western Chem & Mfg Co, Los Angeles, Calif

METHYL ISOBUTYL KETONE—see also Hexone

C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
Horn, Jefferys & Co, Burbank, Calif

METHYL ISOPROPYL KETONE

Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

METHYL LAURATE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†El Dorado Oil Wks, Oakland, Calif

METHYL LEVULINATE

†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

METHYL MAGNESIUM IODIDE

†Arapahoe Chems Inc, 2800 Pearl St, Boulder, Colo — 613

ARAPAHOE
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GRIGNARD REAGENTS (RMgX)

In Lab., Pilot & Commercial Lots, as 1 to 4 M. Soln's in Ethyl or Butyl Ether. We perform CUSTOM SYNTHESIS via the GRIGNARD REACTION— **INQUIRE!**

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METHYL MERCAPTAN

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
Universal Mfg Co, P O Box 2427, Houston, Tex — Wentworth 7475

METHYL MERCAPTAN
ETHYL MERCAPTAN
95%—99%
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in tank cars and carload cylinders and drums
LCL Cylinders or Drums
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Prompt Shipments—Inquiries Invited
•
UNIVERSAL MANUFACTURING COMPANY
P.O. Box 2427 Houston, Texas

METHYL METHACRYLATE (Monomeric Liquid, Acrylic Liquid)

$CH_2=C(CH_3)—COOCH_3$. Water-clear liquid. B.P. 100.5° C. Sp. Gr. 0.950. Refractive index 1.417. Viscosity @ 25° C. 0.59. Uses—plastics.

†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Peters Chem Mfg Co, 3623 Lake St, Melrose Park, Ill — Melrose Park 643
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Bamberger, A, Corp, Bklyn, N Y

Chemically Pure

Methyl Methacrylate Monomer—Liquid
Methyl Methacrylate Polymer—Powder
Dental Acrylic

PETERS CHEMICAL MFG. CO.
3623 LAKE STREET MELROSE PARK, ILL.

METHYL MONOBROMOACETATE

$BrCH_2COOCH_3$. M.W. 153. Colorless to straw-colored liquid. Completely miscible in acetone, benzene, carbon tetrachloride, ether, methanol; sol. n-heptane; slightly sol. water. Uses: as a lachrymator; in organic syntheses.

†Dow Chem Co, Midland, Mich — Midland 500

n-METHYL MORPHOLINE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

METHYL MYRISTATE

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

METHYL MYRISTATE (cont'd)

†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†El Dorado Oil Wks, Oakland, Calif

a-METHYL NAPHTHALENE

$C_{10}H_7CH_3$. M.W. 142. Colorless liquid. Insol. water; sol. most common organic solvents. Uses: primary reference fuel in standardization of Diesel engine fuels; organic synthesis.

†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
†Velsicol Corp, 330 E Grand Av, Chicago, Ill — Delaware 7-7383

beta-METHYL NAPHTHALENE

$C_{10}H_7(CH_3)$. M.W. 142.19. White, monoclinic crystals. M.P. 35-36°C. Insol. in water, but readily sol. in organic solvents. Uses—intermediate in mfr. dyestuffs, insecticides; in molten form, as solvent for high molecular-weight compounds insol. in other media.

Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
†Velsicol Corp, 330 E Grand Av, Chicago, Ill — Delaware 7-7383

METHYL NAPHTHYL KETONE

†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

METHYL NONYL KETONE

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

METHYL OLEATE

Orange-colored ester, faint fatty odor. Sp. gr. at 28°C., 0.866; dist. range (15 mm.), 200-215°C. Freezing P., below 0°C. Acidity, 4.6-5.3% free fatty acid (equal to about 10.6 mg. KOH per g.). Insol. in water; sol. in oils and organic solvents. Uses: plasticizer; mfr. cleaning and polishing compounds, molding lubricants; softener for leather, rubber, waxes, and resins; varnish remover; dye carrier.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

METHYL ORANGE (Orange III, Gold Orange, Tropaeolin D, Sodium p-dimethyl-amino-azo-benzine-sulfonate, Helianthin)

$C_{14}H_{14}O_3N_3SNa$. M.W. 327.3. Orange yellow powder or crystalline scales. Uses: biological stain; pH indicator - pH range 3.0 (red) to 4.4 (yellow); titrimetric indicator in inorganic volumetric analysis.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151

METHYL PENTACHLOR STEARATE

$C_{17}H_{30}Cl_5COOCH_3$. (Approx.) M.W. 470.7 (approx.) Clear yellow to deep, reddish brown. Insol. water; sol. hydrocarbons. Use: plasticizer.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

2-METHYL-2,4-PENTANEDIOL

$CH_3C(CH_3)OHCH_2CH_2OHCH_3$. M.W. 118.17. Uses: coupling agent in making single phase mixtures of water, petroleum naptha, coal-tar hydrocarbons, castor oil, and the common organic ketones and esters; stabilizing agent in various emulsions.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400

METHYL PENTANES

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

METHYL PHENYL ACETATE

$C_6H_5CH_2CO_2CH_3$. M.W. 150.17. Liquid of honey like odor. Sp. gr. 1.044 at 16°C. B.P. 220°C. Insol. water. Sol. alcohol, ether. Uses—perfumery.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

†Trubek Labs, Inc, E Rutherford, N J

METHYL PHENYL CARBINOL (Methyl Benzyl Alcohol; l-Phenylethanol)

$C_6H_5CH(CH_3)OH$. M.W. 122.16. Colorless liquid. Density 1.013 at 20/4°C. B.P. 205°C.

†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

METHYL PHENYL CARBINOL ACETATE

$C_6H_5CH(CH_3)OCOCH_3$. a. Phenyl ethyl acetate, Phenyl-methyl carbinyl acetate, Styrallyl acetate. Clear, colorless liquid with a gardenia type odor. Sp. gr. 1.024 at 25/25°C. Ref. index, 1.493 at 25°C. Completely miscible with alcohol and methanol, and practically insoluble in water at 25°C. Use: in perfume.

†Dow Chem Co, Midland, Mich — Midland 500
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

METHYL PROPYL KETONE (Acetylpropane, Pentanone)

$C_5H_{10}O$. M.W. 86. Sp. gr. 0.809/20°/20°C. B.P. 101.7°C. Water white, dist. range more than 90% between 100-103°C. Uses: as a solvent, as a substitute for diethylketone.

†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

†Eastern Chem Corp, Newark, N J

METHYL RICINOLEATE

$C_6H_{13}CHOH\text{-}CH_2CH{=}CH(CH_2)_7COOCH_3$. M.W. 312. Clear, bright, low viscosity fluid. Uses: plasticizer; lubricant; cutting oil additive; wetting agent.

†Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

METHYL SALICYLATE (Synthetic Oil of Wintergreen, Synthetic Gaultheria Oil, Wintergreen, Oil of Wintergreen, Methylic Salicylas)

$C_6H_4OH.COOCH_3$. M.W. 152.1. Colorless liquid with wintergreen odor. Sp. gr. 1.186-1.191. B.P. 219-225°C. M.P. —8.3°C. Sol. in 70% alcohol. Ester Value 369.3. Refractive Index 1.536-1.538. Made by heating methyl alcohol and salicylic acid in presence of sulfuric. Uses—as flavoring agent in extracts, candies, dentifrices, antiseptics, in soaps, disinfectants, etc. Grades—U.S.P.; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dow Chem Co, Midland, Mich — Midland 500
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735

HEXYLENE GLYCOL

(2-Methyl-2,4-pentanediol)

SHELL CHEMICAL CORPORATION

500 Fifth Avenue, New York 18

100 Bush Street, San Francisco 6

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METHYL SALICYLATE, U.S.P.

Specifications: Clear, colorless liquid; approx. 100% min.; solubility in 70% ethyl alcohol (1:7), complete; solubility in N KOH (1:10), complete; sp. g. 25 at 25° C., 1.180-1.185; U.S.P. test for heavy metals — negative. Weight per gallon 9.9 lbs. Free sample, 4 oz.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.

MONSANTO CHEMICALS—PLASTICS

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For address of nearest District Sales Office see ad in Catalog Section.

METHYL SALICYLATE (cont'd)

†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Ryland, H C, Inc, N Y	

METHYL STEARATE

$C_{17}H_{35}CO_2CH_3$. M.W. 298.30. Colorless crystals. M.P. 38.39°C. Insol. water, sol. alcohol, ether.

Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200

alpha-METHYL STYRENE

†Dow Chem Co, Midland, Mich	Midland 500
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

beta-METHYL UMBELLIFERONE

$C_{10}H_8O_3$. M.W. 176.2. M.P. 186-187° C. Sol. alkalis; slightly sol. ethanol; insol. water, ether, chloroform. Uses: optical bleach or whitening agent for soaps and soap products; screening agent for ultraviolet radiation; organic intermediate.

Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa	Atlantic 1-6240
†Carlisle Chem Wks, Reading, O	†Fiber Chem Corp, Matawan, N J

KOPPERS

beta-METHYL UMBELLIFERONE

USES: Its blue fluorescence is used to mask the yellow tints of soaps, waxes, plastics and synthetic fibers. Also used as an intermediate in organic syntheses, and as a screening agent in sun-tan lotions.



KOPPERS COMPANY, INC.
CHEMICAL DIVISION
Pittsburgh 19, Pa.

METHYL UREA

†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500

METHYL VIOLET (Crystal Violet, Pyoktanin Blue)

Mixtures of the hydrochlorides of pentamethyl-p-rosaniline and hexamethyl-p-rosaniline. Dark green crystals. Sol. alcohol, water. Uses—Indicator, as a dye

METHYL VIOLET (cont'd)

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Hunt, Philip A, Co, Palisades Park, N J	Leonia 4-4000
LaPlace, L J & M, 85 Zabriskie St, Hackensack, N J	Hackensack 3-0412
L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
†N Y Color & Chem Co, 374 Main St, Belleville, N J	Belleville 2-1140
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich	Jordan 4-6500
Palmer Supplies Co, Cleveland, O	Var-Lac-Oid Chem Co, N Y
Uhlich, Paul, & Co, Inc, N Y	

METHYLAL (Methylenedimethyl Ester, Formal, Dimethoxymethane, Methylenedimethylate)

$CH_2(OCH_3)_2$. M.W. 76.08. Colorl., clear, volatile liquid. Chlorof. odor, pungent taste. Sol. water, alcohol, ether, oils. B.P. 42° C. Uses—in perfumery for extracting odors, medicine, dewaxing lubricating oils, extracting soybean oil, solvent.

★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000

METHYLENE BLUE (Methylthionine Chloride, Tetramethylamidophenthiaznium, Tetramethylthioninchlorhydrate)

$C_{16}H_{18}N_3SCl3H_2O$. Tech. product is zinc chloride, double salt of tetramethylthionine. $(C_{16}H_{18}N_3SCl)_2.ZnCl_2.H_2O$. Dark green, amorp. cryst. or powd. Sol. water, alcohol, chloroform. Uses—stain in bacteriology; dyeing and printing textiles; laboratory reagent; in medicine. Grades—U.S.P.; tech.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Chems Pure Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
†L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
Le Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

METHYLENE BROMIDE (Dibromomethane)

CH_2Br_2. M.W. 173.85. Colorless to yellowish liquid. Uses: organic synthesis, solvent, heavy liquid.

†Dow Chem Co, Midland, Mich	Midland 500
†Eston Chems Inc, 3100 E 26 St, Los Angeles, Calif	Angelus 9-8183
†Michigan Chem Corp, St Louis, Michigan	41
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

METHYLENE CHLORIDE

CHAPLAIN & BIBBO
75 West Street, New York 6, N. Y.
Telephone: BOwling Green 9-5636
Cable: ASCHEMPRO

METHYLENE CHLORIDE (Dichloromethane, Methylene Bichloride, Carrene)

CH_2Cl_2. Colorless, non-inflam. liq. M.W. 84.930. Sp. gr. 1.336 (34°/4°C.). B.P. 39.8°C. Pounds/gal. 11.13. Sol. alcohol, ether. F.P. —96.7°C. V.D. (15°C.), lbs./cu. ft. 0.224. Latent heat of vap., B.T.U./lb. 135.5. S.H., Cal./Kg./°C. or B.T.U./lb./°F. 0.289 (15-40°C.). Miscible alcohol, ether, slightly sol. in water. Uses—mfr. intermediates, organic chemicals, synth. dyes, drugs and perfumes, lacquers; in medicine. Refrigerant; biological preservative. Degreasing and spotting agent. A solvent for dewaxing lubricating oils. Grades—tech.

Amer Firsteline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
†Chaplain & Bibbo, 75 West St, N Y	Bowling Green 9-5636
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Dow Chem Co, Midland, Mich	Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007

METHYLENE CHLORIDE

JOHN A. CHEW
Incorporated
INDUSTRIAL AND FINE CHEMICALS
60 East 42nd Street, New York 17, N. Y. MU 2-0993

METHYLENE CHLORIDE (cont'd)

McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

METHYLENE IODIDE (Di-Iodomethane)

CH_2I_2. M.W. 267.86. Yellow to brownish, very refractive liquid. Use: separation of mixtures of minerals.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

†National Biochemical Co, Chicago, Ill

METHYL IODIDE
METHYLENE IODIDE
COMPOUNDS FOR
REFRACTIVE INDEX WORK
OF HIGHEST PURITY
EDCAN Laboratories
TRADE MARK
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MICA (Muscovite, Laminated Talc)—see also Isinglass

Native hydrous silicates. Crystalline. Sp. gr. 2.9. Decomposes on heating. Uses—mfr. lubricants, stove doors, ornamental tile, paints, textiles; as electrical insulator; oil-cloth and rubber filler; annealing steel. Grades—commercial.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610

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Waterground and Micro-Mica
from 160 mesh to a 3000 theoretical mesh size for
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THE ENGLISH MICA CO.
STERLING BUILDING. STAMFORD, CONN.

MICA (cont'd)

†English Mica Co, Sterling Bldg, Stamford, Conn — Stamford 4-9531
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Howe & French, 99 Broad St, Boston, Mass — Hancock 3910
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 3-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Concord Mica Corp, Penacook, N H — Palmer Supplies Co, Cleveland, O
Klemm, Emil, Inc, Salt Lake City, Utah

MILORI BLUE

Form of ferri-ferrocyanide. Contains gypsum, alum, barium sulfate or chalk. Uses—mfr. blue headed matches, laundry blue, lithographic and printing inks, lacquers, paints, varnishes pigments; ingredient of fertilizer mixtures; coloring soap. Grades—tech.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Amshacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 3-1051
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206
†Kahnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Eakins, J B & W R, Inc, Bklyn, N Y — Uhlich, Paul, & Co, Inc, N Y

MINERAL BLACK (Slate Black)

Natural. Solid. Made from heavy black slate. Uses: as paint pigment. Grades—tech.

Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 3-1051
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670

Georgia Peruvian Ochre Co, N Y — Ulrich Chem Co, Indianapolis, Ind
†Keystone Filler & Mfg Co, Muncy, Pa

MINERAL RUBBER (Elaterite, Gilsonite)

Fossil resin resembling asphaltum. Found in England, France, Switzerland, etc. Dark-brown, solid amorp. Saponification No. 56. Acid No. 4.9. Uses: mfr. paints; flux for asphalts and rubber; ingredient of protective coatings.

Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Hird & Connor, Inc, Boston, Mass

MINING SALTS

Mixture of sodium bromate and bromide, containing about 43% bromate and about 57% bromide. Slightly pink powder or fine crystals. Uses: source of bromine for extracting gold, and for bromination of organicals. Grades—can be had also to buyer's specifications.

†Dow Chem Co, Midland, Mich — Midland 500

MOLYBDENUM (Metal)

Mo. Dark gray-black powd. Sp. gr. 10.2. M.P. 2620°C. Uses—mfr. molybdenum steel.

Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

Fansteel Metallurgical Corp, N Chicago, Ill

MOLYBDIC OXIDE (Molybdic Trioxide, Molybdic Anhydride)

MoO_3. M.W. 144.0. Sp. gr. 4.5. White rhombic crystals. Sol. ammonia and alkalies. Uses—mfr. various molybdenum salts, molybdenum metal; used as a reducing agent and reagent for P_2O_5, As_2O_5, H_2O_2, aromatic oxycompounds, phenols and alcohols.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151

†Climax Molybdenum Co, N Y

MONAZITE

Native phosphatic sand containing the rare earths, particularly Ce, La, Th. Uses—mfr. cerium, thorium comps.; in certain alloys.

†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

MONEL METAL

Alloy of nickel, copper, etc., in varying proportions, particularly valuable because of its non-corrosive characteristics.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

MONOAMYL AMINE

†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

MONOBENZYL-p-AMINOPHENOL

$C_6H_5CH_2$-NH-C_6H_4. Light brown, finely ground powd., melting between 84 and 90°C.; 96 to 99% pure; solubility is 50% in anhydrous methanol, 50 to 95% in ethyl alcohol, 0.06% in water, 0.1 to 0.6% in gasoline. Uses—to prevent gum formation in gasoline.

†Jorala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

MONOBENZYL SUCCINATE

†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

n-MONOBUTYLAMINE

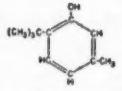
$C_4H_9NH_2$. Uses—mfr. pharmaceuticals, dyes, rubber chemicals, emulsifying agents, de-sizing agents for textiles, butylated acid amides and other analogous organic compounds. Can be condensed with aldehydes, ketones, and oxides. Reacts with phosgene, chlorhydrins, and cyanic or thiocyanic acid derivatives.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

KOPPERS

MONO-tert-BUTYL-meta-CRESOL

USES: In the production of perfume fixatives such as musk ambrette, rubber and petroleum chemicals, modified phenolic resins and fine chemicals; also of value as a germicide for the formulation of disinfectants.



KOPPERS COMPANY, INC.
CHEMICAL DIVISION
Pittsburgh 19, Pa.

MONO-tert-BUTYL-m-CRESOL

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

MONOCHLORBENZENE (Chlorobenzol, Benzene Chloride, Chlorbenzene, Chlorbenzol Phenyl Chloride)

C_6H_5Cl. Colorless liq. Sp. gr. 1.112 (15°C.). M.P. —45°C. B.P. 132°C. Sol. alcohol, benzene, chloroform, ether; insol. water. Uses—mfr. picric acid, phenol, military poison gases, sulfur blacks and browns, synth. perfumes, dinitrochlorobenzene, intermediates, drugs and dyes. Grades—tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chem Prods Corp, Cartersville, Ga — Cartersville 798
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712

CHLORINATED BENZENES

Monochlorobenzene, o-Dichlorobenzene, Trichlorobenzene

DOW

THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products

Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.

See listing ad for other products

MONOCHLORBENZENE (cont'd)

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810

MONOCHLOROBENZENE

Other Benzene Derivatives:

Paradichlorobenzene
Benzene Hexachloride
Hexachlorobenzene
Orthodichlorobenzene, Tech.
1, 2, 4, 5-Tetrachlorobenzene
1, 2, 4-Trichlorobenzene
2, 4, 5-Trichlorophenol

HOOKER ELECTROCHEMICAL CO.
4715 Buffalo Ave., Niagara Falls, New York
New York, N.Y. • Tacoma, Wash. • Wilmington, Calif.

HOOKER CHEMICALS

WRITE FOR GENERAL PRODUCTS LIST

For listings of other products see Catalog Section ad.

MONOCHLORODIFLUOROMETHANE

$CHClF_2$. M.W. 86.5 Use: refrigerant.

Ansul Chem Co, Marinette, Wis — Marinette 216
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Elston Chems Inc, 3100 E 26 St, Los Angeles, Calif — Angelus 9-8183

MONOCHLORHYDRIN, ALPHA (Chlorpropyleneglycol)

$CH_2Cl.CH(OH).CH_2(OH)$. Yellow, syrupy liq. Sp. gr. 1.328 (15°C.). Miscible water, alcohol, ether. Uses—mfr. intermediates; to lower freezing point of dynamite.

†Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071

MONOCHLOROTOLUENE

C_7H_7Cl. M.W. 126.5. Sp. Gr. 1.075 at 25/15° C. Boiling range 158.5-160° C. Chemically stable to water, alkalies and most acids below 100°C. Uses—chemical syntheses, solvent.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

MONOCHLOROTOLUENE

Other Toluene Derivatives:

Benzal Chloride • Benzoic Anhydride • Benzoyl Chloride • Benzyl Alcohol, Tech. • Benzyl Chloride • Benzyl Thiocyanate.

HOOKER ELECTROCHEMICAL CO.
4715 Buffalo Ave., Niagara Falls, New York
New York, N.Y. • Tacoma, Wash. • Wilmington, Calif.

HOOKER CHEMICALS

WRITE FOR GENERAL PRODUCTS LIST

For listings of other products see Catalog Section ad.

MONOETHANOLAMINE (2-Hydroxyethyl Amine Ethanolamine)

$(CH_2.CH_2OH).NH_2$. Water white liq. Sp. gr. 1.017 to 1.027 at 20/20°C., not less than 90% distilling between 165°C. and 173°C. Weight per gal., 8.6 lbs. at 20°C. Completely soluble water, alcohol, most organic solvents. 1% solution has pH of 11.5. Uses—mfr. dyestuffs, pharmaceuticals, textile compounds; acid gas absorbent; preparation cosmetic creams, polishes, oil, wax, solvent emulsions; removal of carbon from aluminum pistons of airplane motors, electrolytic condensers, dry cleaning soaps, soluble oils, dispersing agent for casein and shellac; penetrant, softening and moistening agent; mfr. pharmaceuticals. Grades—tech.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Dow Chem Co, Midland, Mich — Midland 500
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

ALKANOLAMINES

DOW

THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products
Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.
See listing ad for other products

MONOETHYLAMINE (70% Aqueous Solution)

$C_2H_5NH_2$(Anhydrous). M.W. 45.1 (anhydrous). Color—water white. Sp. gr. at 20°/20°C. 0.79–0.80. Monoethylamine content at least 70%. Flash pt. below 0°F. Wt. per gal. 6.63 lbs. Uses: dyestuff intermediate.

Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

MONOETHYLANILINE (Ethylaniline)

$C_2H_5NHC_6H_5$. M.W. 121.09. Colorless liq. Sp. gr. 0.9631. M.P. —63.5°C. B.P. 204.7°C. Sol. alcohol. Uses—mfr. intermediate and organic chemicals, ethyl-benzylaniline, acid green, patent blue A, and other dyestuffs.

†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007

MONOISOPROPANOLAMINE

$CH_3CH(OH)CH_2NH_2$. M.W. 75.08. Sol. water. Liquid with ammoniacal odor. Uses: in prep. of detergents, potential plasticizers, and insecticides.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Dow Chem Co, Midland, Mich — Midland 500

MONOMETHYLAMINE

CH_3NH_2. Inflam. gas, strong ammoniacal odor. Boils at —6°C. to —6.5°C. at 768 mm. mercury. One vol. water at 25°C. dissolves 959 vols. monomethylamine. Highly reactive base. Product of high purity supplied in water solution of 25-30% concentration by weight. Uses: depilatory tanning industry; mfr. dyes, chemical compounds; in liq. form good solvent for many organic compounds.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

MONOMETHYL p-AMINOPHENOL SULFATE

$(C_6H_4[OH]NHCH_3)_2H_2SO_4$. White, crystalline powd. Decomposes at 260°C. Sol. water. Uses—mfr. motion picture films; dyeing hair and furs; as photographic developer. Grades—tech.; C.P.; photographic.

Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif — Kimball 2214
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000
Norman-Willets Co, Chicago, Ill

MONOSTEARIN (Glyceryl Monostearate)

$C_{17}H_{35}COOCH_2CHOHCH_2OH$. M.W. 358. White flakes. Uses: coupling agent in preparation of lubricating greases; in mfg. of cold creams, paper surface lubricant.

†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Emulsol Corp, Chicago, Ill

MONTAN

Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903

MORPHOLINE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

MORPHOLINE 2, 4-DICHLOROPHENOXYACETATE

$HN(CH_2)_4O$.B.P. 128°C. Misc. with water all proportions. Uses—mfr. emulsifying agents, solvent for resins, dyes, waxes, etc., in organic synthesis.

†Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880

ALGALOID—AGAGEL

(PURE EXTRACTIVES OF IRISH MOSS)

—FOR—

Emulsions Stabilizing
Suspensions Gel Formation

T. M. DUCHÉ & SONS, INC.

ESTABLISHED 1857

117 Hudson St., New York 13, N. Y.

Branches: Chicago • Boston

MOSS IRISH (Chondrush, Carragheen, Killeen, Pig-Wrack, Pearl Moss, Rock-Salt Moss)

Kelp found along coasts of Ireland and New England. Uses—mfr. soaps, food preparations; clarifying agent for chemical purposes; general sizing agent; dressing leather; in medicine. Grades—natural; U.S.P.; bleached (Chondrus Crispus).

Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800

†Hathaway Allied Prods, Los Angeles, Calif — Howe, W Russell, N Y
Heyman, N H, Inc, N Y — Lyon, Julian W, N Y
Smith Crude Drug & Spice Corp, N Y

BOTANICAL RAW MATERIALS

for Technical and Industrial Uses

ELM BARK — IRISH MOSS
CATECHU — SAPONIN
COCHINEAL — LICORICE ROOT
LYCOPODIUM — SOAP BARK

Write for Complete Price List

S. B. PENICK & COMPANY

50 CHURCH STREET, NEW YORK 7, N. Y. - TELEPHONE: CORTLANDT 7-1970
735 W. DIVISION STREET, CHICAGO 10, ILL. - TELEPHONE: MOHAWK 5651

MUSK (Natural)

Dried secretion from the prenuptial follicles of Moschus moschiferous, the musk deer of Central Asia. Irregular, shiny, dark grains, extremely penetrating odor. Sol. alcohol, water. Uses—in perfumery.

Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lo Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Lyon, Julian W, N Y — Manheimer, J, N Y

MUSK KETONE

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500

MUSK KETONE (cont'd)

Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700

†Maschmeijer, Jr, A, Inc, N Y

MUSK SYNTHETIC

Pale yellowish crystals with odor resembling natural musk. Uses—Fixative in perfumes.

†Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Greeff, R W, & Co, Inc, 110 Rockefeller Plaza, N Y — Circle 6-9680
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

†Maschmeijer, Jr, A, Inc, N Y — Var-Lac-Oid Chem Co, N Y

MYRISTLE BROMIDE

†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

MYROBALAN EXTRACT (Terminala Chebula, Hurr Nuts)

Extract of Myrobalans containing 25% tannin. Uses—tanning leather; mordant in dyeing and printing cottons; dyeing silk black. Grades—liq., 25% tannin; solid, 50% tannin.

†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756

NAPHTHALENE

REFINED

Flake, Ball, Crushed and Chip
Crude 78° C. and 74° C.

THE BARRETT DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR ST., NEW YORK 6, N.Y.

Barrett

One of America's Great Basic Businesses

Reg. U. S. Pat. Off.

NAPHTHALENE (Tar Camphor, White Tar, Naphthalin)

$C_{10}H_8$. White, crystalline flakes or powd., strong coal-tar odor. Sp. gr. 1.15 (15°C.). M.P. 80.05°C. B.P. 217.96°C. Sol. benzene, absolute alcohol ether. Melting pt. minimum, °F., 175. Uses—mfr. intermediates, organic chemicals, hydrogenated derivatives, naphthols, naphthylamines, phthalic acid and derivatives, phthalein dyestuffs, synth. indigo, motor fuels, trinitronaphthalene explosives, liquid air and ammonium nitrate explosives, insecticidal compositions, flea pwrs., artificial resins with formaldehyde, celluloid plastics, candles, phenolphthalein, diethylphthalate, synth. tannins, artificial leathers, lubricating compositions, resins, lacquers, varnishes, eosin dyes; as moth-

NAPHTHALENE

HOT PRESSED • WHIZZED • REFINED

GALLARD SCHLESINGER
CHEMICAL CORP.

92-94 LIBERTY ST., NEW YORK 6, N.Y.
RECTOR 2-0262 CABLE: GALLARDKEM

NOW AVAILABLE
Koppers Refined and Crude
NAPHTHALENE *For industrial uses*

For refined naphthalene, the melting point is not less than 79.6°C. For the three standard grades of crude naphthalene the melting points are not less than 74°C., 76°C., and 78°C., respectively.
Koppers Refined or Crude Naphthalene is shipped in tank cars or in bags or barrels. Refined grade is available in crushed, chipped or flake form.

KOPPERS COMPANY, INC.
Tar Products Division, Pittsburgh 19, Pa.

NAPHTHALENE (cont'd)

proofing agent; substitute for camphor and paraffin; solvent in reclaiming rubber; solvent for resin and asphalt; laboratory reagent; binder for hard coal briquettes; wood and hides preservative; general disinfectant; enriching gas. Grades—flake; balls; crushed; blocks; grains; tablets; C.P.; U.S.P.; crude refined.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151

CHEMICALS

FOR ALL INDUSTRIES

NAPHTHALENE
(crude and refined)
COAL TAR PRODUCTS
DYESTUFFS
INTERMEDIATES
PIGMENTS

FALCO

FALLEK PRODUCTS CO., INC.
163 Broadway
NEW YORK 6, N. Y.
Cable Address: "FALCOPROD"

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912

NEVILLE

CRUDE NAPTHALENE

74°-76° Melting Point

One of Many Neville Quality Chemicals

THE NEVILLE COMPANY

PITTSBURGH · PA.

NAPHTHALENE (cont'd)

Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L. & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700

CHAS. PAGE & CO., INC.

CRUDE NAPHTHALENE

hot pressed and whizzed

REFINED NAPHTHALENE

flake, crystal and ball

50 E. 42nd STREET, NEW YORK 17, N. Y.

VA 6-0903 CABLES: NINIPAGA

†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
†Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267

NAPHTHALENE

Crude and Refined

ALL GRADES and other

Chemicals, Solvents and Coal Tar Products

Republic Chemical Corp.

94 Beekman Street, New York 7

Cable Address: Jaynivrad

NAPHTHALENE (cont'd)

Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Rosenthal Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Sessions Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950

NAPHTHALENE
ORTHODICHLOROBENZENE

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Since 1918

Serving the World's Chemical Markets . . . Meriting CONFIDENCE

ROSENTHAL - BERCOW CO. INC.

DRUGS CHEMICALS OILS WAXES

25 East 26th Street New York 10, N. Y.

Cable Address: "RODRUG" All Codes

†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y — Bowling Green 9-7600

U·S·S Naphthalene

Crude

Minimum melting point 77° to 78°C.

Available in tank-car quantities

COAL CHEMICAL SALES DIVISION

United States Steel Corporation Subsidiaries

71 Broadway, New York 6, N. Y.

USS COAL CHEMICALS

UNITED STATES STEEL

†Colorado Fuel & Iron Corp, Denver, Colo
Dereume, Raymond, Punxsutawney, Pa
Hardy, M W, & Co, Inc, N Y
†Inland Steel Co, Chicago, Ill
Monarch Chem Wks, Inc, Omaha, Neb
†Naphthalene Prods Co, Tarrant, Ala
Simmons Prods Co, Inc, N Y
†Standard Chlorine Chem Co, Inc, So Kearny, N J
Tar Residuals, Inc, N Y
Van Waters & Rogers, Inc, Portland, Ore
Wise, Irving, & Co, Inc, N Y

NAPHTHAS AROMATIC

These products are produced either by hydrogenation or extraction and differ from straight run naphthas in that they have the ability to dissolve many substances that ordinary straight run solvent naphtha will not dissolve. This type of naphtha is used largely to dissolve synthetic resins in the formulation of synthetic resin enamels.

†Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Pan Amer Refg Corp, 122 E 42 St, N Y — Lexington 2-4322
†Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201

Chem By-Prods Co, Chicago, Ill
Commerce Petroleum Co, Chicago, Ill

NAPHTHAS BLENDING

A low vapor pressure, high octane petroleum concentrate, used for blending with casinghead gasoline, volatile low octane gasoline, for the production of higher octane gasoline. Gravity, 43-45° A.P.I.; color, 30 plus; doctor, sweet; corrosion, negative; initial boiling pt., 220; end pt., 400; octane number, 70; Reid vapor pressure at 100°F.; 1 lb.; Max. sulfur (lamp method), less than .05%; preformed gum, 1 milligram A.S.T.M. gum, 6 milligrams.

C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
Gulf Oil Corp, Pittsburgh, Pa
†Naph-Sol Refg Co, Cleveland, O

NAPHTHAS CLEANERS'

Special solvents of coal-tar or petroleum origin used by dry-cleaners for the removal of stains, dirt, grease, grime, etc., from clothes, garments, etc. See Benzine, Benzol, Naphtha (Coal-Tar), Stoddard Solvent, etc. See also Bureau of Standards (CSJ-38) Revised Standard for Stoddard Solvent.

Technical Naphthas and Petroleum Solvents
Amsco-Solv
Aromatic Solvents
Amsco Hexane
Amsco Heptane



AMERICAN MINERAL SPIRITS CO.
153 East 44th Street, New York
Chicago Los Angeles

Atlanta, Boston, Buffalo, Carteret, Cincinnati, Cleveland, Detroit, Grand Rapids, Houston, Indianapolis, Milwaukee, New Orleans, Philadelphia, Providence, St. Louis, San Francisco, Toledo, Toronto, Can.

NAPHTHAS CLEANERS' (cont'd)

†Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146

Chem By-Prods Co, Chicago, Ill
Commerce Petroleum Co, Chicago, Ill
†Naph-Sol Refg Co, Cleveland, O

NAPHTHAS COAL TAR (Solvent Naphtha)

Mixture of small amounts of benzol and toluol with xylol and higher homologues. a. Crude, dark, straw colored liq. b. Refined water-white. Sp. gr. a. 0.862-0.892. b. 0.862-0.872. B.P. a. and b. about 160°. Flash Point about 25.6°C. Uses—mfr. rubber solvents, soaps, oil-cloth, linoleum; washing crude anthracene; general solvent; dry cleaning; naphtha for dynamites; waterproofing agent; ingredient of paints, varnishes and enamels; xylol and cumol solvent and extractive medium in obtaining vegetable oils, fats, and essential oils. Grades—crude; refined.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
†Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Nitrogen Prods Inc, 450 7 Av, N Y — Bryant 9-1045
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
†Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y — Bowling Green 9-7600

Chem By-Prods Co, Chicago, Ill
†Colorado Fuel & Iron Corp, Denver, Colo
Commerce Petroleum Co, Chicago, Ill
Crowley Tar Prods Co, Inc, N Y
†Inland Steel Co, Chicago, Ill
Krekel Goetz Sales & Supply Co, Grand Rapids, Mich

PICCO
Coal Tar
NAPHTHAS
PENNSYLVANIA
INDUSTRIAL CHEMICAL CORP.
CLAIRTON, PENNSYLVANIA

NAPHTHAS HYDROGENATED

Mixtures of aromatized hydrocarbons. Either slightly straw colored or limpid, water-white, depending upon the boiling point. Produced from the hydrogenation of petroleum. Uses—mfr. lacquers, varnishes, enamels; as thinners and in the mfr. of protective coatings.

C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650

NAPHTHAS ROSIN

†Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
†National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473

NAPHTHAS STRAIGHT RUN

These naphthas are distilled directly from crude in a variety of boiling ranges to fit specific evaporation rates required for specific uses. Among these uses are paint thinners; cleaners' solvent; lacquer diluent; and rubber solvent.

†Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481

Gulf Oil Corp, Pittsburgh, Pa
†Naph-Sol Refg Co, Cleveland, O

NAPHTHAS V. M. & P.

An abbreviation for Naphtha, Varnish Makers' and Painters'. Specifications on this product are broad, as can be seen from the following: Sp. gr. in Baume API, 56-58; distilation range beginning from 190° to 200°F., and ending at 330°F. Mainly paraffins and naphthenes. Has general formula of C_nH_{2n}. See Benzine.

†Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146

Chem By-Prods Co, Chicago, Ill
Commerce Petroleum Co, Chicago, Ill
Gulf Oil Corp, Pittsburgh, Pa
†Naph-Sol Refg Co, Cleveland, O
†Skelly Oil Co, Kansas City, Mo

NAPHTHENIC ACID SALTS

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Nuodex Prods Co Inc, 850 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201

alpha-NAPHTHOL

$C_{10}H_7OH$. Colorless prisms or powd., disagreeable taste, phenolic odor. Sp. gr. 1.224 (4°C.). M.P. 97°C. B.P. 278-80°C. Sol. benzol, alcohol, ether; slightly sol. water. Uses—mfr. intermediates, synthetic drugs, perfumes, azo dyes; as antiferment. Grades—crude; refined.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Gen Aniline Wks, N Y

beta-NAPHTHOL (Naphthol, Isonaphthol, Betamonohydroxynaphthalene)

$C_{10}H_7OH$. White or colorless leaflets or powd. Sp. gr. 1.217 (4°C.). M.P. 122°C. B.P. 285-6°C. Sol. alcohol, ether, chloroform, benzene, oils, alkaline solutions. Slightly sol. hot water. Uses—mfr. synth. drugs and intermediates, synth. dyes; in medicine. Grades—tech.; resublimed (U.S.P.)

†Amer Cyanamid Co, Agric Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660

Russell, W R, & Co, N Y

a-NAPHTHOLPHTHALEIN

$C_{28}H_{18}O_4$. M.W. 418.14. Pale to grayish red powder. Insol. water, sol. alcohol. Uses: pH indicator - pH range 7.0 (yellow) to 9.00 (blue).

†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8832

NAPHTHORESORCINOL (1, 3-Naphthalenediol)

$C_{10}H_6(OH)_2$. M.W. 160.16. M.P. 124°C.

Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

NAPHTHYLAMINE (Naphthalidine, Alphanaphthylamine, Betaphythylamine)

$C_{10}H_7NH_2$. M.W. 143.08. Colorless needles. Alpha, sp. gr. 1.131. M.P. 50°C. B.P. 300°C. Slightly sol. water; sol. alcohol, ether. Beta, sp. gr. 1.0614 (98°C.). M.P. 111°C. B.P. 306°C. Sol. alcohol, ether, water. Uses—Alpha, mfr. Martins' blue, Magdala red; reagent for nitrites and nitrates. Beta, mfr. azo dyes; in organic synthesis.

†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

alpha-NAPHTHYLAMINE (Alpha-Aminonaphthalene, Naphthalidine)

$C_{10}H_7NH_2$. M.W. 143.08. White, solid, crystalline. Sp. gr. 1.131. M.P. 50°C. B.P. 300°C. Sol. alcohol, ether; slightly sol. water. Uses—mfr. intermediates, organic chemicals, azo dyes; as laboratory reagent; toning photographic prints; deblooming agent; developing agent in dyeing; in petroleum. Grades—tech.; refined.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Gen Aniline Wks, N Y — Kruger, L, & Co, Inc, N Y

beta-NAPHTHYL SALICYLATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330

a-NAPHTHYL THIOUREA

†Fallek Prods Co Inc, 163 Bway, N Y — Barclay 7-7939
Powell, John, & Co Inc, 1 Park Av, N Y — Murray Hill 5-1770

NEOCINCHOPHEN (2-Phenyl-6-Methyl-Quinoline-4-Carboxylic Acid Ethyl Ester)

$C_6H_5.CH_3.C_9H_4N.COOC_2H_5$. M.W. 291.33. White to pale yellow, odorless, tasteless, crystalline powder. Sol. hot alcohol; very sol. ether, chloroform; nearly insol. water. Use: medicinal.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660

NEODYMIUM CARBONATE

$Nd_2(CO_3)_3$. Pure form. Sol. hydrochloric, nitric, acetic acids. Uses—special absorption purposes by optical glass manufacturers; glass decolorizing agent. Grades—tech.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
†Maywood Chem Wks, 100 W Hunter Av, Maywood N J — Hackensack 2-2020
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

NEODYMIUM NITRATE

$Nd(NO_3)_3.6H_2O$. M.W. 438.39.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

NEODYMIUM OXALATE

$Nd_2(C_2O_4)_3.10H_2O$. H. W. 732.54. Uses—to produce orchid color in glassware; as decolorizing agent to produce crystal clear glass of low light absorption.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

NEOHEXANE

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

NEON

Ne At. Wt. 20.183. Inert gas. Sp. Gr. 0.674. B.P. -246°C. Uses—Neon lights (red).

†Linde Air Prods Co, N Y

NEOPENTANE

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

NEROLIN (Beta Naphthyl Ethyl Ether)

$C_{10}H_{7}$-O-C_2H_5. M. W. 172.1. White crystals with orange odor. M.P., 35.5°C. Insol. water, sol. alcohol, ether. Uses—perfumery.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4550
Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-5200

NICKEL (Metal)

Ni. Steel-gray metal. Sp. gr. 8.9. M.P. 1452°C. Sol. slowly HCl, dilute H_2SO_4, dilute H_3PO_4, more rapidly in HNO_3. Uses—mfr. nickel steels and alloys; mfr. nickel salts.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
†Intnl Nickel Co, Inc, N Y

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

NICKEL ACETATE (Nickelous Acetate)

$Ni(C_2H_3O_2)_2 + 4H_2O$. Green crystalline mass or powd. Sol. water; insol. alcohol. Uses—mordant in printing cotton goods and dyeing textiles.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430

Kruger, L, & Co, Inc, N Y

NICKEL AMMONIUM SULFATE (Nickel Salts Double)

$NiSO_4.(NH_4)_2SO_4.6H_2O$. M.W. 394.98. Bluish-green crystals. Sol. water; insol. alcohol. Use: electroplating metals.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

NICKEL BROMIDE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

†Drug Labs, Phila, Pa

NICKEL CARBONATE, Basic (Nickelous Carbonate)

Approximately $2NiCO_3.3Ni(OH)_2 + 4H_2O$. M.W. 587.56. Light brown powd. Decomposes on heating. Sol. dilute mineral acids; insol. water. Uses—mfr. soaps, nickel salts; in ceramic colors and glazes; electroplating; for coloring metals; as catalyzer for hardening fats. Grades—tech.; C.P.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655

NICKEL CHLORIDE (Nickelous Chloride)

$NiCl_2.6H_2O$. Green, deliq. crystalline powd. Sp. gr. 2.56. Sublimes on heating. Sol. water, and ammonium hydroxide. Uses—mfr. sympathetic inks; as laboratory reagent; nickel plating; absorbent for ammonia in gas masks; in medicine. Grades—tech.; C.P.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430

NICKEL CYANIDE (Nickelous Cyanide)

$Ni(CN)_2$. Apple-green plates or powd. Loses water of crystallization at 200°C. and then decomposes on further heating. Sol. solutions

NICKEL CYANIDE

Also Manufacturers of

Nickel Carbonate, Nickel Hydroxide

Nickel Lactate and other Nickel Salts

Kingston Chemical Co., Inc.

15 William Street, New York 5, N. Y.

WHitehall 4-0007

NICKEL CYANIDE (cont'd)

ammonium hydroxide and potassium cyanide. Uses—alloy gold and silver plating, metallurgy and galvanoplastic work. Grades—tech.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655

†Linick Chem Co, Chicago, Ill

NICKEL FLUOBORATE

$Ni(BF_4)_2.7H_2O$. Green crystalline solid, readily soluble in water. Uses—Catalytic reactions and organic synthesis.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220

NICKEL FLUORIDE

NiF_2. M.W. 96.69. Greenish crystals. Insol. water, sol. potassium cyanide, ammonia, hydrochloric acid.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

NICKEL FORMATE (Nickelous Formate)

$Ni(OOCH)_2{\cdot}2H_2O$. M.W. 184.7. Pale green powder. Uses: prep. of nickel catalysts for oil hydrogenation and isomerization reactions.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Trojan Powder Co, Allentown, Pa — 45201

NICKEL HYDROXIDE (Nickelic Hydroxide)

$Ni(OH)_3$. **Black powder. Manufacture nickel salts.**

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007

NICKEL IODIDE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

NICKEL LAURATE

†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

NICKEL NAPHTHENATE

M.W. about 520. 11% metal. Sol. hydrocarbons, vegetable oils. Uses: catalyst in oil treatment.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

NICKEL NITRATE

$Ni(NO_3)_2.6H_2O$. M.W. 290.79. Green, deliquescent crystals. Sol. water, alcohol. M.P. 57°C. Uses—nickel plating, production nickel catalysts.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

NICKEL OLEATE

†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

NICKEL OXIDE (Nickelous Oxide, Nickel Black, Nickel Peroxide, Green Nickel Oxide, Nickel Protoxide)

NiO. M.W. 74.69. Natural and manufactured. Sp. gr. 7.45. M.P. absorbs oxygen at 400°C. Is reduced to NiO_2 at 600°C. Sol. acids

NICKEL OXIDE (cont'd)

and ammonium hydroxide. Uses—mfr. nickel salts; painting on porcelain; as catalyst in making various chemicals. Grades—green powd.; peroxide, black powd.; C.P.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

Kruger, L, & Co, Inc, N Y — Metallurg, Inc, N Y

NICKEL POWDER

Ni. 99.65%. Furnished in 100, 200, 300 mesh.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

NICKEL SALTS, Single and Double (Nickel Sulfate, Electrolytic Salt, Blue Salt, Nickel Ammonium Sulfate, Nickelous-Ammo Sulfate)

Single—a. $NiSO_4$. b. $NiSO_4.6H_2O$. c. $NiSO_4.7H_2O$. a. Yellow. b. Blue. c. Green. Solid crystalline. Sp. gr. a. 3.418 (15°C.). b. 2.031. c. 1.98. M.P. a. loses SO_3 at 840°C. b. loses $6H_2O$ at 280°C. c. 98-100°C. a. Sol. water. b. and c. sol. alcohol. a. Insol. alcohol, ether. Uses—mfr. nickel ammonium sulfate, paints, varnishes, ceramics; in nickel plating; blackening brass and zinc; as mordant in dyeing and printing textiles; catalyst for oils. Grades—tech.; C.P. Cont.bbls. (300 lbs.; kegs (100 lbs.); bottles (¼, 1, 5 lbs.). Tariff, 25%. Double—$NiSO_4.(NH_4)_2SO_4.6H_2O$. Bluish-green prisms. Sp. gr. 1.929 (20°C.). Sol. water and ammonium sulfate. Uses—in nickel plating; galvano-plastic work; violet coloring of metal; photo-engraving; oil and tallow refining. Grades—tech.; purified; C.P.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919

NICKEL SALTS

Catalytic Grade

Special Platers Crystals

NICKEL CARBONATE

NICKEL CHLORIDE

NICKEL CYANIDE

NICKEL FORMATE

NICKEL HYDROXIDE

NICKEL LACTATE

ZINC SULFATE

Kingston Chemical Co., Inc.

15 William Street, New York 5, N. Y.

WHitehall 4-0007

Platers Supplies

nickel salts · cyanides
anodes · degreasing solvents
muriatic · nitric · sulfuric
and chromic acids

— • —

L. J. & M. LAPLACE

HACKENSACK, N. J.

HACKENSACK 3-0412 BRYANT 9-8069

NICKEL SALTS (cont'd)

LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

NICKEL STEARATE

$Ni(C_{18}H_{35}O_2)_2$. M. W. 625. Green powder. M. P. 150-160°C. Washed ash, 11.4%, soluble ash, 1.6%. Solubility, insoluble in water, alcohol, esters, and other low molecular weight polar compounds. It is soluble in aromatic hydrocarbons and forms gels with mineral spirits and petroleum oils. Uses—lubricants, wax, and waterproofing compounds, coating and plastic compositions, catalyst, leather treatment, detergent in organic liquids, powdered quench in nickel welding.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
†Mathe Chem Co, 169 Millbank St, Lodi, N J	Prescott 9-4981
†Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

NICKEL SULFATE (Single Nickel Salts)

$NiSO_4.7H_2O$. M.W. 281. Green crystals; Sp. Gr. 1.98. Uses: mfg. of nickel ammonium sulfate, nickel plating, mordant in dyeing and printing textiles.

Acsto Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa	Rittenhouse 6-3874
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Goris and Co, 8124 S Heyne Av, Chicago, Ill	Triangle 4-6200

PIGMENTS afc SOLVENTS

NICKEL SULFATE

NICKEL CARBONATE · NICKEL OXIDE

NICKEL FORMATE

INDUSTRIAL CHEMICALS

american FIRSTOLINE CORPORATION

420 LEXINGTON AVE., N. Y. 17, N. Y. MU-3-3203

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Phelps Dodge Refg Corp, 40 Wall St, N Y	Whitehall 4-0560
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500

NICKEL SULFATE (cont'd)

Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seldner & Enaquist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Wagner, A T, Co, Detroit, Mich	

NICKEL TITANIUM

★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y	Barclay 7-0943

NICOTINAMIDE (Nicotinic Acid Amide)

$C_5H_4NCONH_2$. White powder, slightly deliquescent. Faintly aromatic odor. Uses—medicinal.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Carus Chem Co Inc, Union & 8 Sts, La Salle, Ill	La Salle 1500
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Vitamins Inc, 809 W 58 St, Chicago, Ill	Normal 2727

NICOTINE (Beta-pyridyl-n-methyl-pyrrolidine)

$C_{10}H_{14}N_2$. Alkaloid from tobacco. Thick water white oil. Sp. gr. 1.00924. B.P. 246.7°C. Uses—medicinal, insecticide, tanning.

Conway Prods Co, 510 6 Av, N Y	Oregon 5-2505
Maxim Chem Co, Inc, 44 Cliff St, N Y	Worth 4-0070
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland	
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660

NICOTINE SULFATE

AMMONIUM BICARBONATE
BARIUM CHLORIDE • BUTYL ALCOHOL
CARBON BISULFIDE
CORN SUGAR • FORMIC ACID
GLYCERINE • NAPHTHALENE
NICKEL SULFATE
POTASSIUM CARBONATE
POTATO STARCH
SODIUM HYPOSULFITE • TALL OIL
VEGETABLE OILS • VITAMIN OIL

MAXIM

Since 1905, a dependable source of supply for pharmaceutical and industrial chemicals in bulk.

MAXIM CHEMICAL COMPANY, INC.
44 CLIFF STREET, NEW YORK 7, N. Y.

NICOTINE SULFATE

$C_{10}H_{14}N_2.H_2SO_4$. Commercially available in solutions, usually 40% equivalent of nicotine. Uses—as horticultural insecticide; in medicine. Poisonous. Grades—tech.

Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Maxim Chem Co, Inc, 44 Cliff St, N Y	Worth 4-0070
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland	
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

NIKETHAMIDE (N,N-Diethyl Nicotinamide, Nicotinic Diethylamide Acid)

$C_5H_4N.CON(C_2H_5)_2$. M.W. 178.13. Yellow, almost odorless liquid. Miscible with water. Use: medicine.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2730
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
Maxim Chem Co, Inc, 44 Cliff St, N Y	Worth 4-0070
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
†Arenol Chem Corp, Long Is City, N Y	

m-NITRANILINE

$C_6H_4(NO_2)NH_2$. M.W. 138.06. Yellow needles. Sp. gr. 1.43 (18°C.). M.P. 111.8°C. B.P. 285°C. Sol. alcohol, ether; slightly sol. water. Uses—mfr. azo dyestuffs, alizarin yellow GG, tetranitroaniline, metranilire yellow, lanus Red BW, intermediates, organic chemicals; as explosive; color test for pine wood; developing colors in printing and dyeing textiles. Grades—tech.; 96%.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

o-NITRANILINE (Orthonitroaminobenzene)

$C_6H_4(NO_2)NH_2$. Orange-yellow cryst. Sp. gr. 1.442. M.P. 71°C. Sol. alcohol, ether, hot water. Uses—mfr. dyes.

†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

p-NITRANILINE

$NO_2C_6H_4NH_2$. Yellow needles. Sp. gr. 1.437 (14°C.). M.P. 148°C. B.P. 210°C. (20 mm. pressure). Sol. alcohol, ether; slightly sol. water. Uses—mfr. color lakes, dyestuffs, paranitraniline red, paraphenylenediamine; producing para red on textile fibres. Grades—technically pure (90.5%).

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
File Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
†Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531

Russell, W B, & Co, N Y

p-NITRANILINE RED (Azophor Red, Para Red, Nitrazol, Discharge Lake R, Paranitrobenzene-azobetanaphthol)

$C_{16}H_{11}N_3O_3$. Red powd. or paste. Uses—as dyestuff. Cont.—drums; bbls.; tins, various sizes.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
File Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

†Federal Color Labs, Inc, Cincinnati, O

NITROANISOLE

†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

o-NITROANISOLE

$C_7H_7NO_3$. M.W. 153. Light reddish to light amber liq. Cryst. Point—9.6°C. Dist. Range—269.0°C. to 273.0°C. Weight per gal., 10½ lbs. approx. Uses—mfr. dyestuffs; inorganic synthesis. Ship. Class.—dye intermediate. Ship. reg.—Poison (label required).

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

NITROBENZENE (Nitrobenzol, Oil Mirbane, Essence of Mirbane, Nitrobenzide)

$C_6H_5NO_2$. M.W. 123.05. Yellow, oily liq., odor bitter almonds. Sp. gr. 1.208 (15°C.). M.P. 5.70°C. B.P. 210.85°C. Sol. alcohol, ether; very slightly sol. water. Uses—mfr. aniline and azobenzene, benzidine, quinaldin, quinoline, metanilic acid, various intermediates, organic chemicals, synth. dyestuffs of azo, nigrosine, aniline, fuchsine and other groups, tetranitroaniline, and other high explosives, cosmetics, toilet preparations, dust preventatives, polishes, greases, glues, cements, soaps; artificial oil almonds in perfumery; selective solvents for making lubricating oil; odorant for grease, etc. Grades—tech.; redistilled; 97% (Oil of Mirbane).

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

m-NITROBENZOYL CHLORIDE

$C_6H_4NO_2COCl$. M.W. 185.5. Yellow to brown liquid partially crystallized. Uses: dyes; pharmaceuticals.

★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

p-NITROBENZOYL CHLORIDE

$NO_2C_6H_4COCl$. M.W. 185.5. Yellow, crystalline lump material with characteristic odor. Uses: mfg. of novacaine; dyes.

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

o-NITROBIPHENYL

$C_6H_5C_6H_4NO_2$. M.W. 199.20. Crystalline solid. Uses: intermediate in chemical synthesis; plasticizer.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

2-NITRO-1-BUTANOL

$CH_3CH_2CH(NO_2)CH_2OH$. This compound, liquid at ordinary temperatures, can be distilled under vacuum without difficulty. Readily esterified with organic acids; the esters are stable to heat. However, the esters hydrolyze readily and, in alkaline solutions, react to yield nitrobutylene and the salt of the acid. Having the structure of a secondary nitro compound, it undergoes condensation reactions with aldehydes to form dihydroxy compounds.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

NITROCELLULOSE (Pyroxylin, Gun Cotton)

$C_{12}H_{16}(ONO_2)_4O_5$. M.W. 504.16. Yellowish, amorp. mass. Sp. gr. 0.1-0.3. Sol. ether, alcohol, ethyl acetate, nitrobenzene, benzene, acetone, amyl acetate, etc. Uses—mfr. explosives, collodion solutions, lacquers, photographic films, bronzing liquids, dopes, cements, enamels. Grades—tech. Cont.—kegs, various sizes. Ship reg. prohibited by express; wet with water, inflammable solid; dry, dangerous explosive; wet with alcohol or solvent, inflammable liquid.

HERCULES

CELLULOSE DERIVATIVES

Nitrocellulose, cellulose acetate, ethyl cellulose, and cellulose gum (CMC—sodium carboxymethylcellulose).

GM50-3

HERCULES POWDER COMPANY INCORPORATED
Wilmington, Delaware

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
†Hercules Powder Co, 978 Market St, Wilmington, Del
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Blum, Paul, Co, Buffalo, N Y

FILM SCRAP

ALL GRADES and other Chemicals, Solvents and Coal Tar Products

Republic Chemical Corp.
94 Beekman Street, New York 7
Cable Address: Jaynivrad

NITROCELLULOSE SOLUTIONS

†Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
†Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000

NITROCELLULOSE SOLUTIONS (cont'd)

†Hercules Powder Co, 978 Market St, Wilmington, Del
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
†Horn, Jefferys & Co, Burbank, Calif

m-NITROCHLOROBENZENE

$C_6H_4ClNO_2$. M.W. 157.5. Greenish yellow crystalline mass. Cryst. Point, 48.9°C. Uses—for conversion into various important meta derivatives. Ship. Class.—dye intermediate. Ship. Reg.—Poison (label required).

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

o-NITROCHLOROBENZENE (Orthonitrochlorobenzol)

$C_6H_4(NO_2)Cl$. M.W. 157.5. Colorless cryst. Sp. gr. 1.365 (12°C.). M.P. 32.5°C. B.P. 245.7°C. Sol. alcohol, ether. Uses—mfr. intermediate and organic chemicals, dyes, chrome colors, orthoanisidine, orthonitrophenol guaiacol. Grades—tech

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

p-NITROCHLOROBENZENE

$NO_2C_6H_4Cl$. Colorless cryst. Sp. gr. 1.520 (18°C.). M.P. 83°C. B.P. 242°C. Sol. alcohol, ether. Uses—mfr. dyestuffs, intermediates, organic chemicals, paranitraniline, paranitrophenol, para-aminophenol, phenacetin. Grades—98% tech

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

o-NITRODIPHENYL

$C_6H_5.C_6H_4NO_2$ yellow crystals, Insol. in water. Sol. in alcohol and ether. M. W 199.20. Uses—dye intermediate.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

NITROETHANE

$CH_3CH_2NO_2$. The reactions of nitroethane are similar to those of nitromethane but are limited by the presence of only 2 rather than 3 reactive hydrogens in the molecule. It forms ethylamine upon reduction.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

2-NITRO-2-ETHYL-1, 3-PROPANEDIOL

$CH_3OHC(C_2H_5)(NO_2)CH_2OH$. Quite similar to the corresponding methyl derivative, but is more soluble in organic solvents. Its M.W. is slightly higher and its M.P. lower than that of the methyl derivative.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

NITROMETHANE

CH_3NO_2. M.W. 61.04. Moderately sol. water; sol. organic liquids. Uses: raw material for synthesis; solvent.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

2-NITRO-2 METHYL 1,3 PROPANEDIOL

$CH_2OHC(CH_3)NO_2CH_2OH$. M.W. 135.12. Very sol. water. Use: raw material for synthesis.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

2-NITRO-2 METHYL-1 PROPANOL

$CH_2C(CH_3)NO_2CH_2OH$. M.W. 119.12. Very sol. water. Uses: heat sensitizer for rubber latex; raw material for synthesis.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

alpha-NITRONAPHTHALENE

$C_{10}H_7NO_2$. Yellow cryst. Sp. gr. 1.331. M.P. 56-58°C. B.P. 304°C. Sol. alcohol, chloroform, ether. Uses—mfr. intermediates, sulfur dyestuffs, alpha naphthylamine, phthalic acid, benzoic acid; deblooming oils—especially petroleum. Grades—tech.

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Hexagon Labs, Inc, 3536 Pearlree Av, Bronx, N Y — Fairbanks 4-7550

NITROPARAFFINS

Saturated aliphatic nitrohydrocarbons, obtained by reacting petroleum hydrocarbons with nitric acid. Four basic NP's now being produced are Nitromethane, Nitroethane, 1-Nitropropane and 2-Nitropropane. Uses—solvents for nitrocellulose, vinyl and alkyd resins, and other resins, fats, waxes and dyestuffs. Raw material for chemical syntheses, adhesives, protective coatings, selective solvent refining processes, plastics, resins, detergents, wetting agents, cosmetics, insecticides, fumigants, pharmaceuticals, and textiles.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

NITROPARAFFINS

Powerful solvents . . . Materials for synthesis

NITROMETHANE 1-NITROPROPANE
NITROETHANE 2-NITROPROPANE

COMMERCIAL SOLVENTS Corporation
17 EAST 42nd STREET, NEW YORK, N.Y.

o-NITROPHENOL

$C_6H_4(NO_2)OH$. M.W. 139.05. Yellow prisms. Sp. gr. 1.447. (20°C.). M.P. 45°C. B.P. 214°C. Sol. alcohol, ether. Uses—mfr. dyes, nigrosine, intermediate and organic chemicals. Grades—tech.

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

p-NITROPHENOL

$NO_2C_6H_4OH$. Colorless or yellowish cryst. Sp. gr. 1.479. M.P. 113.8°C. Decomposes at 279°C. Sol. alcohol, ether; slightly sol. water. Uses—mfr. intermediates, organic chemicals, sulfur colors, para-aminophenol, paranitrophenetole, paraphenetidine, methylparaaminophenol, photographic developers, salophen, phenacetin, phenolphthalein. Grades—tech. (99%); paste, 70%.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

1-NITROPROPANE

$CH_3CH_2CH_2NO_2$. M.W. 89. Water white liquid. Slightly sol. water; miscible with organic liquids. Uses: raw material for synthesis; solvent for cellulose esters, vinyl copolymers, dyes, resins.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

2-NITROPROPANE

$CH_3CHNO_2CH_3$. M.W. 89. Water white liquid. B.P. 120°C. Freezing pt. −93°C. Flash pt. (Tagliabue open cup) 75°F. Index of Ref. at 20°C. 1.3941. Sp. gr. 0.992 at 20°C.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

NITROTOLUENE (Ortho, Meta, Para)

$NO_2C_6H_4CH_3$. M.W. 137.06. Ortho—yellow liq. Meta—yellow solid crystalline. Para—yellow solid crystalline. Sp. gr. ortho 1.168, Meta 1.164 (19.1°C.), Para 1.286 (20°C.). M.P. ortho −10.6°C. Meta 15.5°C. Para 51.3°C. B.P. ortho 222.5°C. Meta 230 to 231°C. Para 237.7°C. Sol. alcohol, ether, benzol. Uses—mfr. toluidine, fuchsine, and other groups of synth. dyes, di and tri nitrotoluene, para and ortho nitrotoluene. Grades—tech.

Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

m-NITRO-p-TOLUIDINE

$C_7H_8N_2O_2$. Crystalline powd. Uses—mfr. monazo dyes, other intermediates.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Du Pont de Nemours, E I, & Co, (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4584
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

o-NITRO TOLUIDINE

†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

NITROGEN—GAS

N_2. M.W. 14.008. Gaseous element in the atmosphere with atomic No. 7. Colorless. Density (air—1) 0.967. M.P.—209.86°C. B.P. —195° C. Slightly sol. water, alcohol. Uses—in places where its inertness is an advantage—such as filling electric light bulbs.

Air Reduction Sales Co, N Y
†Linde Air Prods Co, N Y
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio
†Stuart Oxygen Co, San Fran, Calif

NITROGEN TETROXIDE

N_2O_4. M.W. 92. Uses: addition to organic unsaturated compounds, nitration of organic compounds, oxidation, explosives; catalyst, flour bleaching.

Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

p-NITROSO DIMETHYLANILINE

$NOC_6H_4N(CH_3)_2$. M.W. 150.09. Green leaflets. M.P. 35°C. Sol. alcohol, ether. Uses—mfr. methylene blue, indophenol and other dyes, vulcanization accelerators. Grades—tech.

†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

n-NITROSO DIPHENYLAMINE

C_6H_5-N(NO)-C_6H_5. M.W. 198.12. Yellow to brown flakes. M.P. 62°C min. Insol. water. Uses: retarder of vulcanization of nitrile rubbers.

†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

NITROSO-beta-NAPHTHOL

$C_{10}H_6(NO)OH$. M.W. 173.06. Orange crystalline solid. M.P. 109.5°C. Sol. acetic acid, benzene, ether. Uses—reagent for analysis of metals, dye intermediate. Grades—reagent, tech.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

NONALDEHYDE

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500

n-NONYL ALDEHYDE

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500

NONYL BROMIDE

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

NONYL PHENOL

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240

NORMAL SOLUTIONS (Prepared)

Accurately weighed and standardized analytical chemicals, which, when diluted according to given directions, provide accurate volumetric solutions for instant use. There are available special normalities for testing sugar, oil, fat, blood, urine, milk, iron, steel, benzol, etc.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8852

NUTGALLS (Galls, Galla, Aleppo Galls, Mecca Galls, Turkey Galls)

Excrescences on various species of oak. Habitat—Persia, Syria, Turkey, Tripoli, Italy, France, Germany, Austria. Uses—mfr. gallic and gallitannic acids, black ink; as mordant in dyeing and printing textiles; tanning leather and source of tanning; in medicine. Grades—Chinese and Aleppey; whole and powdered.

Allison, Wm M. & Co, 162 Water St, N Y — Whitehall 3-7421
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
Lundt & Co, N Y
Siber, Hegner & Co, Inc, N Y

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

OAK EXTRACT (Quercin)

Extract made from bark of Quercus rubber. Uses—tanning leather products. Grades—25%.

Head, F J, & Son, Inc, Boston, Mass

OCHRES

Earthy iron oxides. Yellow, red and brown. Natural product. Insol. Uses—as pigment in paints, varnishes, paper, linoleum, oilcloth. Grades—based on tinctorial power and iron oxide content.

†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
†Deutz, Theodore H, Co, Bklyn, N Y
Georgia Peruvian Ochre Co, N Y
†Landers-Segal Color Co, Bklyn, N Y
†New Riverside Ochre Co, Cartersville, Ga
†Smith, J Lee, & Co, Inc, N Y

OCTADECYL BROMIDE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

OCTYL ACETATE (2-Ethyl Hexyl Acetate)

$C_6H_{13}CH(C_2H_5)CHO$. Liquid boiling at 163.4°C. and with a sp. gr. at 20°/20°C. is .8733. Uses—lacquer and ink solvent.

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

OCTYL ALDEHYDE (2-Ethyl Hexanal)

$C_4H_9CH(C_2H_5)CHO$. Liquid boiling at 163.4°C. and with a sp. gr. of .8240 at 20°/20°C. Uses—synthesis.

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110

OCTYL AMMONIUM PHOSPHATE

60% soln. Approx. chem. constitution $(C_8H_{17})(NH_4)_2PO_4$ and $(C_8H_{17})_2(NH_4)PO_4$. Pale straw color. Slight ester odor. Sp. gr. 1.06. pH 7.0-7.4.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

OCTYL BROMIDE

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

OCTYL CHLORIDE

†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

OCTYL DECYL PHTHALATE

†Hercules Powder Co, 978 Market St, Wilmington, Del

OCTYL DISULFIDE, Ditertiary

$(C_8H_{17})_2S_2$. M.W. 323.14. Boiling range 241-331°C. Use: chemical intermediate.

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

OCTYL LAURATE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728

OCTYL MERCAPTAN, Tertiary

$C_8H_{17}SH$. M.W. 146.54. Boiling range 161-188°C. Use: chemical intermediate.

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

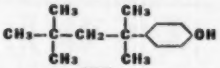
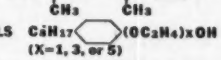
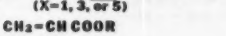
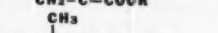
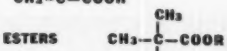
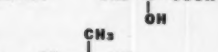
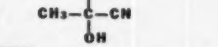
OCTYL PHENOXYETHANOL

$C_8H_{17}C_6H_4OC_2H_4OH$. M.W. 249. Insol. water. Uses: solvent, chemical intermediate.

†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

ORGANIC CHEMICALS FROM ROHM & HAAS

Available in commercial quantities

- OCTYLPHENOL 
- OCTYLPHENOXYETHANOLS  (X=1, 3, or 5)
- ACRYLATE ESTERS 
- METHACRYLATE ESTERS 
- METHACRYLIC ACID 
- HYDROXYISOBUTYRATE ESTERS 
- ACETONE CYANOHYDRIN 
- OCTYLPHENOXYETHOXYETHYL CHLORIDE 

For samples, prices and literature on any of these chemicals, please write to Dept. SP.

CHEMICALS FOR INDUSTRY

ROHM & HAAS COMPANY

WASHINGTON SQUARE, PHILADELPHIA 5, PA.

OCTYL STEARATE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

OIL ACETONE

Slightly colored, oily liq., penetrating odor. Sp. gr. 0.812-0.865. B.P. 75°-125°C. (according to composition). Uses—alcohol denaturant; solvent; purifying dyes; cellulose esters, and ethers solvent; celluloid solvent. Grades—light; heavy.

Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007

OIL ALMOND (Sweet Oil, Bland Oil)

a. Bitter. b. Sweet. From Amygdulus communis. Yellowish liq., aromatic odor. Sp. gr., a. 1.045-1.060. b. 0.915-0.920. M.P. a. and b. 13-14°C. B.P. a. 180°C. Sap. No. 189-200. Iodine No. 93-104. Acid No. 1.5. a. Sol. water, ether; insol. alcohol. b. Sol. alcohol, ether, chloroform, benzol. Uses—(Bitter)—mfr. soaps, perfume and pharmaceutical preparations, toilet articles; flavoring agent in confectionery, food preparations, and the like; in medicine. (Sweet or expressed)—mfr. soaps, perfume and pharmaceutical preparations, cosmetics; lubricant for fine machines; in medicine. Grades—Bitter; U.S.P. free from Prussic acid; artificial (see Benzaldehyde). Sweet expressed; U.S.P.

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Manheimer, J, N Y

OIL ANISE

Colorless, thick liquid from anise seed. Uses—source of anethol, medicine, perfumery, flavoring.

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735

OIL ANISE (cont'd)

Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

Gillan, Charles, & Co, Inc, N Y — Silber, Hegner & Co, Inc, N Y

OIL, APRICOT KERNEL (Oil of Persic)

Clear straw-colored oily liquid. Spec. Grav. 0.91/98. Uses: perfumery and cosmetics.

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

OIL BABASSU

Extracted from the kernels of the nut of the palm Orbignya Speciosa, a sub-division of the family Attalea. Found in Brasil. In refined state is pale yellow color. Used in place of coconut in the soap kettle. Edible grade in place of olive and coconut oils. Sp. gr. at 100°/15°C. 0.867, saponification value 242-253. Iodine number 15-18. M.P. 27-29°C.; Titre 24°C.

Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

Frey & Co, N Y — Spencer, Kellogg, & Sons, Inc, Buffalo, N Y
†Pacific Vegetable Oil Corp, San Fran, Calif

OIL BERGAMOT

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Roure-Du Pont Inc, 366 Madison Av, N Y — Vanderbilt 6-5830
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530

Lyon, Julian W, N Y — Manheimer, J, N Y

OIL BONE (Dippel, Hartshorn Oil)

Brown liq., repulsive odor. From destructive distillation of bones. Sp. gr. 0.900-0.980. Sol. water. Uses—mfr. pyrrole, organic preparations, pyridine; as denaturant; in medicine. Grades—tech.

†Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas — CA2371
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996

†Con Chem Industries, Inc, San Fran, Calif

OIL CAMPHOR (Liquid Camphor)

Colorless, natural liq., characteristic odor. From woods and twigs of Cinnamonium camphora. Sp. gr. 0.870 to 1.040. Ref. Index 1.465—1.481 at 20°C. Constants vary considerably. Sol. ether, chloroform; insol. alcohol. Uses—mfr. safrol, pharmaceutical preparations, soaps, shoe polishes, perfumery, lubricating oils and greases; as illuminant; substitute for turpentine in varnishes; type cleaner; in medicine. Grades—White, Japanese; Chinese; by-product (Sassafrassy).

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131

Gillan, Charles, & Co, Inc, N Y — Silber, Hegner & Co, Inc, N Y

OIL CASHEW NUT SHELL

†Brazil Oiticica, Inc, N Y — Irvington Varnish & Insulator Co, Irvington, N J

OIL CASSIA (Chinese Oil of Cinnamon)

Yellowish or brownish liq., cinnamon-like odor. From bark of Cinnamonium cassia. Sp. gr. 1.045 to 1.063. B.P. 240 to 260°C. Sol. ether, chloroform; insol. alcohol. Uses—mfr. soaps, perfume and pharmaceutical preparations, cosmetics; tanning leather; in flavoring food preparations, confectionery, sweetmeats, spices; in medicine. Grades—U.S.P. redistilled; tech. (75—80%, 80—85¼% cinnamic aldehyde); lead free (use in food products forbidden by Dept. Agriculture). Tech. permitted to be sold only on consumer affidavit for non-edible products.

OIL CASSIA (cont'd)

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
†Dodwell & Co, Ltd, 120 Wall St, N Y	Hanover 2-1580
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Parker, Herbert H, 2 Bway, N Y	Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
†Roure-Du Pont Inc, 366 Madison Av, N Y	Vanderbilt 6-5830
Tomarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
Gitlan, Charles, & Co, Inc, N Y	Biber, Hegner & Co, Inc, N Y

OIL CASTOR (Ricinus Oil)

Yellow to yellowish brown, thick, non-drying, odorless, natural liq. From seeds of Ricinus communis. Sp. gr. 0.960-0.970. Solidifies at —10°C. Sap. No. 178. Iodine No. 86. Acid No. 0.8. Sol. alcohol, ether, benzene, chloroform, carbon bisulfide. Uses—mfr. Turkey red oil, fly paper, fly oils for treating cattle, toilet articles, cosmetics, pomades, rubber substitutes, sulfonated oils, toilet, textile and transparent soaps, lubricating, leather dressing and finishing, and electrical insulating compositions; alizarin assist and dyeing cottons; preservative and softener for leather articles; tanning leather; in medicine. Grades—U.S.P.; No. 1; No. 3.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Grace, W R, & Co, 7 Hanover Sq, N Y	Whitehall 4-1200
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2173
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Wah Chang Corp, 233 Bway, N Y	Cortlandt 7-0887
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

†Brazil Oiticica, Inc, N Y
Cohen, Harry, Atlanta, Ga
Cole & De Graf, San Fran, Calif
Craven, Sidney P, N Y
Frey & Co, N Y
Krekel Goetz Sales & Supply Co, Grand Rapids, Mich
Moser, George, & Son, Inc, Detroit, Mich
Neal, L W, Phila, Pa
Pacific Vegetable Oil Corp, San Fran, Calif
Poole, J R, Co, Boston, Mass
Spencer, Kellogg, & Sons, Inc, Buffalo, N Y
Timberlake, Frederick H, Phila, Pa
Verde, E J, & Co, N Y

OIL CASTOR AMMONIATED

†Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500

OIL CASTOR DEHYDRATED

A castor oil with part of the chemically-combined water removed. Uses—drying oil in paints, varnishes and other products.

†Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

THE
BAKER CASTOR OIL COMPANY
CASTOR OIL
DEHYDRATED CASTOR OIL
HYDROGENATED CASTOR OIL
EXTENSIVE LINE OF
CASTOR OIL DERIVATIVES
120 Broadway, New York 5, New York
Chicago, Illinois — Los Angeles, California

OIL CASTOR DEHYDRATED (cont'd)

†Woburn Chem Corp, Harrison, N J — Kearny 2-3300
Hinz, J H, Co, Cleveland, O
Neal, L W, Phila, Pa
Osgood, D H, Co, Detroit, Mich
Spencer, Kellogg, & Sons, Inc, Buffalo, N Y
Zimmerman, C L, Co, Cincinnati, O

ISOLINE
(DEHYDRATED CASTOR OIL)
Conjulin (Conjugated Linseed Oil)
Conjusoy (Conjugated Soybean Oil)
Wolin
(A Higher Alcohol Ester)
Synthetic Drying Oils Tung Oil Type
STYRENATED OILS
WOBURN CHEMICAL CORP. (N. J.)
KEARNY, N. J.
1200 HARRISON AVENUE • HARRISON POST OFFICE
Woburn Degreasing Co. Woburn, Mass.
Woburn Chemicals, Ltd. Toronto, Canada

OIL CASTOR, HYDROGENATED (Glyceryl Tri [12-Hydroxystearate])

$(C_5H_{11}CHOH(CH_2)_{10}COO)_3C_3H_5$. M.W. 939. Hard, brittle, waxlike solid, yellowish cream to milk white in color.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O	Woodbine 1-4690

DU PONT
REG. U.S. PAT. OFF.
"OPALWAX"
Hydrogenated Castor Oil
100 lb. multiwall paper bags
Sales Offices in: New York, Chicago, St. Louis
Polychemicals DEPARTMENT
E. I. DU PONT DE NEMOURS & CO. (INC.)
WILMINGTON, DEL.

OIL, CASTOR PHOSPHATED, (Unneutralized)

Straw-colored, clear, viscous oil. Uses: finishing leather, surface active compound, plasticiser.

†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

OIL CEDARWOOD

Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Elmer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Nordia Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
†Roure-Du Pont Inc, 366 Madison Av, N Y	Vanderbilt 6-5830
Tomarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
Lyon, Julian W, N Y	Manheimer, J, N Y

OIL CHINA WOOD (Tung Oil, Chinese-Wood Oil, Nut Oil)

Yellow, drying liq. From seeds of Aleurites cordata. Sp. gr. 0.9360 to 0.9432. Solidifying pt. 2-3°C. Sap. No. 193. Iodine No. 150-165. Acid No. 7-6-12. Uses—mfr. paints, varnishes, enamels, driers, spar varnishes, roof cements, putty, baking enamels, waterproof paints, soaps, linoleum, oil-cloth; in waterproofing concretes; in medicine. Grades—as to purity—adulterated with soya bean and cottonseed oils.

T. F. McADAM, INC.

125 Broad Street — New York 4, N. Y.

OILS

Castor • Chinawood • Coconut • Fish
Linseed • Mustardseed • Oiticica • Peanut
Rapeseed • Sesame Seed • Soybean
Teaseed • Sulphonated • Essential
Bleaching Clays • Chemicals • Waxes • Gums
Animal, Vegetable, Fish Oil Fatty Acids

DOMESTIC • EXPORT • IMPORT

Digby 8-3525 — Cable: ADAFALSHA

OIL CHINA WOOD (cont'd)

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Dodwell & Co, Ltd, 120 Wall St, N Y	Hanover 2-1580
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Grace, W R, & Co, 7 Hanover Sq, N Y	Whitehall 4-1200
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
Parker, Herbert H, 2 Bway, N Y	Whitehall 4-7996
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Wah Chang Corp, 233 Bway, N Y	Cortlandt 7-0887
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760

Baker & Gaffney, Phila, Pa
Carroll, R E, Inc, Trenton, N J
Frey & Co, N Y
Gitlan, Charles, & Co, Inc, N Y
Grund, Henry L, Inc, Cleveland, O
Hardy, M W, & Co, Inc, N Y
Haze, Harry, Inc, Chicago, Ill
Hueston, C L, Detroit, Mich
McIver, Alex M, & Son, Charleston, S C
Pacific Vegetable Oil Corp, San Fran, Calif
Roble, Milton F, S Braintree, Mass
Siber, Hegner & Co, Inc, N Y
Western Chems, Inc, Portland, Ore

For your China Wood Oil requirements..

WAH CHANG CORPORATION

WOOLWORTH BUILDING
NEW YORK 7, NEW YORK

Deliveries by

TANK CAR - TANK WAGON - DRUMS

Agents in all manufacturing areas

OIL CITRONELLA

Yellow or greenish yellow oil with agreeable odor. Uses—perfumes, medicine, insectifuge; source of citronellal, geraniol.

OIL CITRONELLA (cont'd)

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
†Dodwell & Co, Ltd, 120 Wall St, N Y	Hanover 2-1580
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Parker, Herbert H, 2 Bway, N Y	Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530

Osborne, E Dewitt; N Y
Gitlan, Charles, & Co, Inc, N Y
Internatio-Rotterdam, Inc, N Y
Lyon, Julian W, N Y

OIL CLOVES (Amboyna, Caryophil Oil)

Pale yellow, volatile liq.; strong aromatic odor, becomes dark with age. From flowers of Eugenia aromatica. Sp. gr. 1.048-1.070. B.P. 250-260°C. Sol. ether, chloroform; insol. alcohol. Uses—mfr. perfume preparations, cosmetics, toilet articles, eugenol, toilet soaps; flavoring agent in food preparations, confectionery; silvering mirrors, in medicine. Grades—U.S.P.; tech.; twice rectified.

†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dodwell & Co, Ltd, 120 Wall St, N Y	Hanover 2-1580
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Parker, Herbert H, 2 Bway, N Y	Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Roure-Du Pont Inc, 366 Madison Av, N Y	Vanderbilt 6-5830
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530

Gitlan, Charles, & Co, Inc, N Y
Lyon, Julian W, N Y

OIL COCOANUT (Coco-Nut Butter, Cocoanut Palm oil, Cocos Oil)

White, amorp. semi-solid, characteristic odor. Sp. gr. 0.9118. M.P. 20-28°C. Sap. No. 250-258. Iodine No. 8.9. Acid No. 5-50. Sol. ether, chloroform, carbon disulfide; insol. alcohol. Uses—mfr. edible fats, chocolates, candies, food preparations, salad oils, margarine, emulsions, baked products, vegetarian foods, cosmetics, toilet preparations, candles, night lights, white, shaving and free-lathering soaps; as ointment base; dyeing cottons; in medicine. Grades—Manila; Ceylon; Cochin; edible; crude; refined.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
Dodwell & Co, Ltd, 120 Wall St, N Y	Hanover 2-1580
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Drew, E F, & Co Inc, 15 E 26 St N Y	Murray Hill 6-2800
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Wah Chang Corp, 233 Bway, N Y	Cortlandt 7-0887
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048

Craven, Sidney P, N Y
Davidson Commission Co, Chicago, Ill
†El Dorado Oil Wks, Oakland, Calif
Frey & Co, N Y
Gitlan, Charles, & Co, Inc, N Y
Moser, George, & Son, Inc, Detroit, Mich
†Pacific Vegetable Oil Corp, San Fran, Calif
†Pacific Vegetable Oil Corp, San Fran, Calif
Philippine Refg Corp of N Y, N Y
Spencer, Kellogg, & Sons, Inc, Buffalo, N Y
Talve Trading Co, N Y
Timberlake, Frederick H, Phila, Pa
Verde, E J, & Co, N Y

COCONUT OIL

FATTY ACIDS

•

E. F. DREW & CO., INC.

15 East 26th St., N. Y. 10, N. Y.

Chicago — Boston — Philadelphia

OIL COD

Uses—leather tanning and finishing. Grades—domestic; Newfoundland; Norwegian.

†Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Kehew Bradley Co, Boston, Mass — Timberlake, Frederick H, Phila, Pa
Lundt & Co, N Y — Trask, Arthur C, Co, Chicago, Ill
Neatsfoot Oil Refgs Corp, Phila, Pa

NATURAL VITAMIN A

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from 800 to 200,000 units per gram

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Contracts for spot sales or extended deliveries

DIRECT IMPORTERS

Since 1905, a dependable source of supply.

MAXIM CHEMICAL COMPANY, INC.
44 CLIFF STREET, NEW YORK 7, N. Y.

OIL COD LIVER (Banks Oil, Morrhua Oil, Oleum Morrhuae)

Yellowish-brown to reddish-brown liq., characteristic odor. From fresh livers of codfish, Gadus morrhua. Sp. gr. 0.922-0.930. Sap. No. 182-189. Iodine No. 141-159. Acid No. 5.6. Sol. ether, chloroform, carbon disulfide; insol. alcohol. Uses—mfr. pharmaceutical preparation; adulterant of linseed oil; tanning and curing leather and chamois leather; in medicine. Grades—Norwegian; Newfoundland; medicinal non-freezing; U.S.P.; pale; light-brown; dark-brown; tech. (see Oil Cod).

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
Dawe's Vitamins, Inc, 4800 S Richmond St, Chicago, Ill — Virgina 3710
†Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
†Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Hardy, M W, & Co, Inc, N Y — Pearson Ferguson Chem Co, Kansas City, Mo

OIL CORN (Maize Oil)

Pale yellow. Natural. From germ of common corn, Zea mays. Sp. gr. 0.920-0.925. M.P. — 17-23°C., solid at — 10°C. Sap. No. 188-193. Iodine No. 111-123. Acid No. 1-7-2.36. Sol. ether, chloroform, amyl acetate, benzene, carbon disulfide. Uses—mfr. food, leather finishing, dressing, lubricating, textile softening and electrical insulating compositions, salad oil, lard, baked products, oleomargarine, paints, varnishes, soap pwrs., soft and textile soaps, rubber substitutes and imitations, rain-proof cloth, oil-cloth, linoleum; as lubricant; grinding paint pigments; substitute in hydrogenated form. Grades—crude; refined.

Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Concord Chem Co, Moorestown, N J — Moorestown 9-1100
Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Staley, A E, Mfg Co, Decatur, Ill — 4141
Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

Davidson Commission Co, Chicago, Ill — Frey & Co, N Y

OIL COTTONSEED (Seed Oil, Cotton-Seed, Oleum Gossypii Seminis)

Pale yellow, yellowish brown, dark red or black-red liq. From seeds of Gossypium herbaceum. Sp. gr. 0.922-0.930. M.P. 34-40°C. Sap. No. 191-196. Iodine No. 105-114. Acid No. 0.6. Sol. ether, benzene, chloroform, carbon disulfide; insol. alcohol. Uses—mfr. carron, cooking and salad oils, oleomargarine, lard and butter substitutes, laundry, toilet and textile soaps. Turkey red oil, tanning, dressing, waterproofing and lubricating compositions, phonograph records, cattle feed, cosmetics, toilet and pharmaceutical preparations; adulterant of olive oil; as lubricant; in canning; in medicine. Grades—crude; prime summer yellow; prime summer white; winter yellow; bleached; U.S.P.

OIL COTTONSEED (cont'd)

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

Frey & Co, N Y — Talre Trading Co, N Y
†Southern Cotton Oil Co, N Y — Tench, H G, Co, Inc, Pittsburgh, Pa

OIL CREOSOTE—see also Creosote Coal Tar

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y — Bowling Green 9-7600
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201

†Coopers Creek Chem Corp, W Conshohocken, Pa — †Inland Steel Co, Chicago, Ill
Crowley Tar Prods Co, Inc, N Y — †Lewis Tar Prods Co, Lyons, Ill
Drouillard, J C, Co, Cleveland, O — Tench, H G, Co, Inc, Pittsburgh, Pa

U·S·S Creosote Oil

and Creosote—Coal Tar Solutions

Produced to comply with A.W.P.A. and A.R.E.A. specifications

Available in tank-car quantities

COAL CHEMICAL SALES DIVISION
United States Steel Corporation Subsidiaries
71 Broadway, New York 6, N. Y.

USS COAL CHEMICALS
UNITED STATES STEEL

OIL EGG YOLK

Source from undecomposed yellow of eggs. Sol. benzine, benzol, ether, B.P. 136°C. Refractory number at 25°, 68.5. Sap. Number 184-191. Reichert-Meisel's Number, 0.4-0.7. Iodine Number, 69-82. Unsaponifiable matter, 3.97-5.08. Uses—in food products, also in many diverse industries.

†Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400

Heap, F J, & Son, Inc, Boston, Mass

OIL FIR

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570

OIL FUSEL (Amyl Alcohol Normal, Grain Oil, Potato Oil, Potato Spirit)—see also Alcohol, Amyl Normal

$CH_3.CH_2CH(CH)_2OH$. Colorless liq. disagreeable odor. Sp. gr. 0.814. B.P. 130°C. Sol. water, alcohol, gasoline, ether. Uses—mfr. amyl acetate and other amyl chemicals, various esters such as salicylic, valerianic, etc., aromatic perfume esters, synth. rubber, special varnishes, resins, waxes, lacquers, artificial fruit syrups, intermediates, organic chemicals, nitrocellulose plastics; as general solvent; solvent for fats and oils; laboratory reagent; gelatinising agent in smokeless powd.; in photometry. Grades—crude; commercial; various degrees of refined rated as to boiling point.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
†Neaico-Monsanto Co, Boston, Mass — Everett 7-5010
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

OIL HERRING

Pale yellow to dark red, natural liq. From herring. Sp. gr. 0.9202-0.932. M.P. 30-31.5°C. Sap. No. 179-194. Iodine No. 136-142. Acid No. 1.8-4.4. Sol. ether, chloroform, benzene, carbon disulfide. Uses—mfr. soaps, printing inks, lubricating compositions; as lubricant; currying and finishing leather. Grades—domestic; Japanese.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

OIL LARD

Colorless or yellow, natural solid or semi-solid peculiar odor. From lard by cold pressing. Sp. gr. 0.915. Solidifies at 0°C. Sap. No. 195-196. Iodine No. 56-74. Sol. ether, chloroform, carbon disulfide; insol. alcohol. Uses—mfr. soaps, candles, lubricating and metal cutting compositions, lighthouse and signal lamps, baked products, confectionery, margarine and food preparations; as lubricant. Grades—prime winter edible; prime winter inedible; off prime; extra No. 1; No. 1; No. 2.

ANIMAL OILS

Lard Oil, Acidless Tallow Oil
Animal Oils, Fats and Grease
Tank Cars or Drums in Carload and less

• *Inquiries Solicitated* •

MARCUS-RUTH-JEROME CO.

Refinery— Neville Island Pa - Fo 1-0367
Western Office— 327 So. LaSalle St. Chicago 4, Illinois Ha 7-1760
Eastern Office— 311 Produce Exchange Bldg. New York, N. Y. Whitehall 4-5198

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
†Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-4300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Marcus-Ruth-Jerome Co, 327 S LaSalle St, Chicago, Ill — Harrison 7-1760
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

Craven, Sidney P, N Y
Frey & Co, N Y
Heap, F J, & Son, Inc, Boston, Mass
Kehew Bradley Co, Boston, Mass
†Neatsfoot Oil Refgs Corp, Phila, Pa
Nye, William F, Inc, New Bedford, Mass
†Pfau's, George, Sons Co, Jeffersonville, Ind
†Reilly-Whiteman-Walton Co, Conshohocken, Pa
Spiegel & Peiffer, N Y
†Swift & Co, Chicago, Ill
Verde, E J, & Co, N Y

OIL, LEMON

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Roure-Du Pont Inc, 366 Madison Av, N Y — Vanderbilt 6-5830
Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

Lyon, Julian W, N Y

OIL, LIME

Oil obtained from lime fruit. Uses—extracts, flavoring, perfumery.

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

OIL, LIME (cont'd)

Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140

Lyon, Julian W, N Y

OIL LINSEED (Boiled Oil, Flaxseed Oil, Linen Seed, Oleum Lini)

Golden yellow, amber or brown, natural liq., peculiar odor. From seeds of flax plant, Linum usitatissimum. Sp. gr. 0.9316-0.9354. Sap. No. 189-195. Iodine No. 170-188. Acid No. 0.8-8.4. Sol. chloroform, amyl acetate, carbon bisulfide, benzene, turpentine; insol. alcohol. Uses—mfr. paints, varnishes, enamels, lacquers, stains, roof cements, putties, primers, linoleum, oil-cloth, soft soaps, printing and lithographic inks, linoleate driers, patent and enamelled leathers, wood preservatives, furniture polishes, carron oil preparations, boiled oil, core oils, plastic compositions, artificial rubber; tempering steels; in photography; coating silk threads; in medicine. Grades—raw; boiled; double boiled; blown; varnish makers; refined; U.S.P.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
Concord Chem Co, Moorestown, N J — Moorestown 9-1100
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Pittsburgh Plate Glass Co. Linseed Oil Div, Red Wing, Minn — 2813
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Baker & Gaffney, Phila, Pa
Drouillard, J C, Co, Cleveland, O
†Falk & Co, Pittsburgh, Pa
Frey & Co, N Y
Haze, Harry, Inc, Chicago, Ill
Industrial Sales Corp, N Y
Krekel Goetz Sales & Supply Co, Grand Rapids, Mich
Landen Putty Wks, Malden, Mass
†Minnesota Paints, Inc, Minneapolis, Minn
Moser, George, & Son, Inc, Detroit, Mich
†Pacific Vegetable Oil Corp, San Fran, Calif
Robie, Milton F, S Braintree, Mass
Senn, George, Inc, Phila, Pa
Smead & Small, Inc, Cleveland, O
Spencer, Kellogg, & Sons, Inc, Buffalo, N Y
Tench, H G, Co, Inc, Pittsburgh, Pa
Western Chems, Inc, Portland, Ore
Zimmerman, C L, Co, Cincinnati, O

OILS & FATTY ACIDS

CHINA WOOD — OITICICA — CASTOR
LINSEED — SOYA — CITRUS
SARDINE — MENHADEN — TALL OIL
SYNTHETIC OILS — PROCESSED OILS

G. A. Wharry & CO., INC.

95 Broad St., New York 4, N. Y. Cable Address: KAYWHARRY

OIL, MANDARIN

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Roure-Du Pont Inc, 366 Madison Av, N Y — Vanderbilt 6-5830

Manheimer, J, N Y

OIL MENHADEN (Oil Mossbunker, Oil Pogy, Oil Bresroot)

Yellowish-brown or reddish-brown, characteristic odor. From menhaden fish. Sp. gr. 0.927-0.933. M.P. 38.5-47.2°C. Solidifies at —4°. Sap. No. 190.6. Iodine No. 139-180. Acid No. 3-11.6. Sol. ether, benzene naphtha, carbon disulfide. Uses—m'fr. cod oil, paints, varnishes, enamels, lacquers, rope, linoleum, oil-cloth, fats by hydrogenation, tallow substitutes, soaps, printing and lithographic inks, rubber substitutes, finishing and dressing compositions for leather; adulterant of cod liver oil; curing leather; in place of linseed oil in

OIL MENHADEN (cont'd)

patent leather; chamois tanning; tempering steels; as waterproofing agent. Grades—Northern; Southern; crude; dark pressed; light strained; yellow bleached; refined alkali; kettle-bodied; light-pressed; blown.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Frey & Co, N Y
Jett, Joseph C, Norfolk, Va
Knapp, Harry G, St Louis, Mo
Nye, William F, Inc, New Bedford, Mass
Zimmerman, C L, Co, Cincinnati, O

OIL MINERAL (Liquid Paraffin, White Mineral Oil, White Oil, Paraffin Oil)

Mixture of liquid hydrocarbon obtained from petroleum. Colorless, oily, nonflorescent, transparent liquid becoming thicker with cold; odor of petroleum when warm. Sp. gr. 0.828-0.905 (25°C.). B.P. not below 360°C. Sol. benzene, chloroform, ether, carbon disulfide, oils; insol. in water, alcohol. M.P. 45°-48°C. Uses—in medicine; in sprays, insecticides; in paints, varnishes, lacquers; as a solvent. Grades—U.S.P.; tech.; Russian.

Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
Befer Petroleum Co, 121 So Broad St, Phila, Pa — Kingsley 5-1323
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Braun Knecht Heimann Co, San Fran, Calif
Cohen, Harry, Atlanta, Ga
Drummond, S P, Inc, N Y
Kuhne-Libby Co, N Y
McNerney Chem Corp, Los Angeles, Calif
†Oil States Petroleum Co, Inc, N Y
†Sherwood Refg Co, Inc, Englewood, N J

OIL MUSTARD SEED

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

Timberlake, Frederick H, Phila, Pa

OIL NEATSFOOT (Hoofoil, Oleum Bubulum)

Pale yellow fixed liq. From feet of bovine cattle. Sp. gr. 0.916. M.P. 28.5-30.8°C. Sap. No. 194-99. Sol. ether, chloroform, kerosene; insol. alcohol. Uses—mfr. lubricating compositions; dressing, finishing, tanning, oiling, waterproofing, and softening leather; cutting oil; oiling wood; general waterproofing agent; as lubricant. Grades—pure; cold pressed; No. 1; extra No. 1; also graded to cold test.

Amer Firstaline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
†Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Marcus-Ruth-Jerome Co, 327 S LaSalle St, Chicago, Ill — Harrison 7-1760
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Lonzn & Davis Sts, Harrison, N J — Harrison 6-6200
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

Frey & Co, N Y
Kehew Bradley Co, Boston, Mass
Meyer & Gregg, Phila, Pa
†Neatsfoot Oil Refgs Corp, Phila, Pa
Nye, William F, Inc, New Bedford, Mass
†Pfau's, George, Sons Co, Jeffersonville, Ind
†Reilly-Whiteman-Walton Co, Conshohocken, Pa
Spiegel & Peiffer, N Y
†Swift & Co, Chicago, Ill
Verde, E J, & Co, N Y

OIL OITICICA

Oil derived from the fruit of Licannia rigida of Brazil. Crude or raw oil is a white or cream colored semi-liq. The semi-polymerized oil is an amber colored viscous liq. Uses—as a drying oil in paints, varnishes, etc.

Concord Chem Co, Moorestown, N J — Moorestown 9-1100
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525

OIL OITICICA (cont'd)

Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

†Brazil Oiticica, Inc, N Y
Frey & Co, N Y
Grund, Henry L, Inc, Cleveland, O
Moser, George, & Son, Inc, Detroit, Mich
Pacific Vegetable Oil Corp, San Fran, Calif

OIL OLIVE (Florence Oil, Luccu Oil, Sweet Oil, Oleum Olivae) —see also Olive Foots

Pale yellow or greenish, natural liq. From fruit of Olea europea. Sp. gr. 0.910-0.9181. F.P. —6°C. Sap. No. 185-196. Iodine No. 77-88. Acid No. 1.9-5.0. Sol. ether, chloroform, carbon disulfide. Uses—mfr. foods, salad oil, food and pharmaceutical preparations, sweetmeats, oleomargarine, vegetable foods, etc., cosmetics, creams, pomades, Castile and textile soaps, Turkey red oils, lubricating compositions, cutting oils; canning fish; boiling off silk; oiling wool; dyeing and printing textiles; as lubricant; finishing, dressing and tanning leather; in medicine. Grades—U.S.P.; edible as to source (French, Italian, Spanish, etc.); denatured.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Concord Chem Co, Moorestown, N J — Moorestown 9-1100
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

Cohen, Harry, Atlanta, Ga
Cooper, T G, & Ch, Inc, Phila, Pa
Frey & Co, N Y
Howe, W Russell, N Y
Lundt & Co, N Y
Sergeant, E M, Pulp & Chem Co, Inc, N Y
Strohmeyer & Arpe Co, N Y
Verde, E J, & Co, N Y

OIL ORANGE

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Roure-Du Pont Inc, 366 Madison Av, N Y — Vanderbilt 6-5830
Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

Lyon, Julian W, N Y
Manheimer, J, N Y

OIL PALM (Palm Butter, Palm Grease, Oleum Palmae)

Reddish-yellow, fatty mass, faint violet odor. Natural. From fruit of Elaesis guineensis. Sp. gr. 0.9026-0.9470. M.P. 27°-42.5°C. Sap. No. 196-205. Iodine No. 51.5-57. Acid No. 24-200. Sol. ether, chloroform, carbon disulfide; insol. alcohol. Uses—mfr. butter coloring, oleomargarine, butter substitutes, stearine, lubricating compositions, cutting oils, soaps, candles, cosmetics, toilet articles, perfume preparations, railway axle greases, rubber substitutes; as lubricant; softening and finishing cottons; coating iron plates in tinplate making; bleaching operations. Grades—Lagos; Niger; Benin; Calabar.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
†Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Cooper, T G, & Co, Inc, Phila, Pa
Craven, Sidney P, N Y
Frey & Co, N Y
Hardy, M W, & Co, Inc, N Y

OIL PALM KERNEL (Palm Nut Oil)

Yellowish natural liq. From nuts of Elaesis guineensis. Sp. gr. 0.952. M.P. 26-30°C. Sap. No. 247.6. Iodine No. 13.4-13.6. Acid No. 8.4. Sol. ether, carbon disulfide, chloroform; insol. alcohol. Uses—mfr. butter substitutes, oleomargarine, food compositions, confectionery, sweetmeats, vegetable foods, chocolate confections, soaps, pharmaceutical preparations, cutting tool lubricants, cosmetics; cotton goods softener; coating iron plates in the tinplate industry; in medicine. Grades—domestic; imported; crude; refined.

†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Frey & Co, N Y
Hardy, M W, & Co, Inc, N Y

OIL PEANUT (Arachis Oil, Earth-Nut Oil, Ground-Nut Oil, Katchung Oil)

Pale yellow, natural liq., nutty odor. From peanuts, Arachis hypogaea. Sp. gr. 0.916-0.922. Solidifies —5°C. Sap. No. 189-196. Acid No. 1.2-32. Iodine No. 83-101. Sol. ether, benzene, chloro-

OIL PEANUT (cont'd)

form, carbon disulfide, carbon tetrachloride; insol. alcohol. Uses—mfr. edible oil, salad oil, oleomargarine, chocolates, vegetable foods, food and pharmaceutical preparations, lubricating compositions, fine soaps, varnishes; canning fish; as lubricant; adulterant of olive oil, oiling wool and degumming or boiling-off silks; softening artificial leather; tanning leather; in medicine. Grades—domestic; oriental crude; refined; edible.

Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
†Darling & Co, 4204 S Ashland Av, Chicago, Ill	Yards 7-5000
†Drew, E F, & Co Inc, 15 E 26 St N Y	Murray Hill 6-2800
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Wah Chang Corp, 233 Bway, N Y	Cortlandt 7-0887
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048

Frey & Co, N Y — Timberlake, Frederick H, Phila, Pa

OIL PEPPERMINT

Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3500
Dodwell & Co, Ltd, 120 Wall St, N Y	Hanover 2-1580
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y	Walker 5-5530
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†Mulchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4755
Nerda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091

Osborne, E Dewitt; N Y — Silver, Hegner & Co, Inc, N Y
Gitlan, Charles, & Co, Inc, N Y

OIL PERILLA

Light yellow, natural liq. From seeds of Perilla ocimoides. Sp. gr. 0.932-0.945. Sap. No. 191-193. Iodine No. 187-202. Sol. ether, chloroform, benzine, carbon disulfide; insol. alcohol. Uses—mfr. varnishes, paints, lacquers, enamels, artificial leather, printing and lithographic inks, paper products; substitute for linseed oil; edible purposes in East. Grades—as to purity.

Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760

Frey & Co, N Y

OIL PINE (Steam Distilled)

Water-white to bright yellow liq., characteristic pine odor. Natural. From dead Southern pine wood. Sp. gr. 0.925-0.942. B.P. 185-225°C. Ester. No. 3-10. Sol. ether, acetone, chloroform, benzene, solvent naphtha, turpentine, etc.; insol. alcohol. Uses—mfr. paints, varnishes, lacquers, enamels, shingle stains, perfume preparations, insecticidal and germicidal compositions, soaps, disinfectants, deodorants, fungicides, scouring and dyeing preparations, detergents, paper coating compositions, polishes; in ore flotation; textile kiering, degumming; desilting.

Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass	Liberty 2-1870
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
†Hercules Powder Co, 978 Market St, Wilmington, Del	
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910

HERCULES

NAVAL STORES

Rosins, hydrogenated rosin, polymerized rosin, dehydrogenated rosin, terpene chemicals, turpentine, pine oils, toxaphene.

GM50-3

HERCULES POWDER COMPANY INCORPORATED

Wilmington, Delaware

CABOT PINE PRODUCTS

PINE TAR
LIGHT
MEDIUM
HEAVY
PINE TAR OIL
PINE OIL
DIPENTENE

Quality Control
Dependable Supply
Technical Service

Cabot Pine Products are thoroughly analyzed and tested by the Cabot Laboratories for uniform, high quality performance in rubber. Staffed by trained technicians, the fully equipped Cabot Laboratories offer you complete technical service.

CABOT

GODFREY L. CABOT, Inc.
77 FRANKLIN STREET
BOSTON 10, MASSACHUSETTS

OIL PINE (cont'd)

Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
†Newport Industries Inc, 230 Park Av, N Y	Murray Hill 6-7305
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Wilco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo	Laclede 2201

Black Hills Chem Co, Rapid City, S Dakota
Cole & De Graf, San Fran, Calif
Colledge, E W, GSA, Inc, Jacksonville, Fla
Commercial Chems, Inc, Buffalo, N Y
†Crosby Chems, Inc, De Ridder, La
Drouillard, J C, Co, Cleveland, O
Gillies & Loughlin, Los Angeles, Calif
Hinz, J H, Co, Cleveland, O
Hird & Connor, Inc, Boston, Mass
Mobile Rosin Oil Co, Mobile, Ala
Moser, George, & Son, Inc, Detroit, Mich
†Southern Naval Stores Div, Leach Bros, Columbia, Miss
Tench, H G, Co, Inc, Pittsburgh, Pa
Ulrich Chem Co, Indianapolis, Ind
West Co, Chelsea, Mass
Wilson, T C, Co, San Fran, Calif
Zimmerman, C L, Co, Cincinnati, O

OIL POPPYSEED (Poppy Oil)

Natural pale golden yellow liq., pleasant odor and taste. From seed of papaver somniferum, album and nigrum. Sp. gr. 0.924-0.928. Sap. No. 189-196. Iodine No. 153-157. Acid No. 0.7-11.0. Sol. ether, chloroform, petroleum, carbon disulfide; insol. alcohol. Uses—mfr. lubricants, salad oil, artists' colors, varnishes, soaps; as leather dressing; substitute for olive oil; burning oil and illuminant. Grades—crude; red; white.

Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970

Frey & Co, N Y

OIL RAPESEED (Colza Oil, Rape Oil)

Natural dark brown to pale yellow liq., unpleasant odor. From rapeseed Brassica campestris. Sp. gr. 0.9133-0.9168. Solidifies —2 to —10°C. Iodine No. 96.3-104.3. Sap. No. 170-177. Acid No. 1.4-13.2. Sol. ether, chloroform, carbon disulfide; insol. alcohol. Uses—mfr. food preparations, oleomargarine, lubricating compositions, cutting oils, rubber substitutes, soaps, blown oils; as condiment; lubricant; quenching oil in tempering steel; oiling wool. Grades—crude; refined; blown.

OIL RAPESEED (cont'd)

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
Concord Chem Co, Moorestown, N J — Moorestown 9-1100
†Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Wah Chang Corp, 235 Bway, N Y — Cortlandt 7-0887
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Frey & Co, N Y — †Pacific Vegetable Oil Corp, San Fran, Calif

STEARIC ACID
and
OTHER
PRODUCTS

W. C. HARDESTY CO., INC.
HARDESTY PRODUCTS ARE INDUSTRY'S KEYSTONE
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OIL RED (Acid Oleic, Acid Oleinic)

$C_{17}H_{33}COOH$. Colorless needles. Sp. gr. 0.8908. M.P. 14°C. B.P. 286°C. Sol. benzine, fixed and volatile oils, benzene, chloroform, ether; insol. alcohol. Uses mfr. paint driers, ointments, candles, soaps, hair oils, polishing and metal cleaning compositions; oiling wood and water-proofing textiles; various oleates of metals; tanning leather; thickening petroleum lubricants. Grades—saponified; distilled; elaine; U.S.P.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firtoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
†Darling & Co, 4204 S Ashland Av, Chicago, Ill — Yards 7-3000
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Gross, A, & Co, 295 Madison Av, N Y — Murray Hill 3-8250
Hardesty, W C, Co, Inc, 41 E 42 St, N Y — Murray Hill 2-1920
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Will & Baumer Candle Co, Inc, Park St, Syracuse, N Y — Syracuse 2-0411
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383

Baker & Gaffney, Phila, Pa
†Celina Stearic Acid Co, Celina, O
Craven, Sidney P, N Y
Frey & Co, N Y
Heap, F J, & Son, Inc, Boston, Mass
Marble-Nye Co, Worcester, Mass
†Shields, Thomas J, Co, N Y
Verde, E J, & Co, N Y

OIL, ROSEWOOD

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
†Roure-Du Pont Inc, 366 Madison Av, N Y — Vanderbilt 6-5830

OIL ROSIN (Codoil, Retinol, Rosinol)

Water-white to brown, thick, viscous odorless liq. Sp. gr. 0.980-1.110. Iodine No. 112-115. B. . 280°C. Sol. ether, chloroform, oil of turpentine, fatty oils, carbon disulfide; insol. alcohol. Uses—mfr. lubricating compositions, printing inks; as adulterant for boiled linseed oil; as lubricant. Grades—first, second, and third run.

Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
†National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Drouillard, J C, Co, Cleveland, O
†Glidden Co, Jacksonville, Fla
Hird & Connor, Inc, Boston, Mass
†Mobile Rosin Oil Co, Mobile, Ala
Moser, George, & Son, Inc, Detroit, Mich
West Co, Chelsea, Mass
Wilson, T C, Co, San Fran, Calif

ROSIN OIL

Headquarters for Rosin Oils and Pine Pitches, with a highly organized research laboratory for the development of Compounds and Specialties to your individual requirements. *Send for "Pine Tree Products" booklet.*

NATIONAL ROSIN OIL PRODUCTS, Inc.
Plant: Savannah, Ga. Branches in Principal Cities
R. K. O. Building, Radio City, New York 20, N. Y.
Pioneer Manufacturer and Refiner of Rosin Oils and Pine Pitch

OIL RUE

Natural, pale yellow to greenish volatile liq., characteristic odor. From Rutagraveolens. Sp. gr. 0.833-0.840. Solidifies —8 to —10°C. B.P. 215-232°C. Sol. ether; insol. alcohol. Uses—mfr. organic chemicals, methyl heptylketone, methylalyl ketone. Grades—tech.

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570

OIL SALMON

Natural, pale golden yellow liq. Sp. gr. 0.9258. Sap. No. 182-188. Iodine No 161. Sol. ether, chloroform, benzine, carbon disulfide; insol. alcohol. Uses—mfr. soaps, dressing, finishing and currying compositions for leather, lubricating compositions; as lubricant. Grades—crude; refined.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

OIL SARDINE (Oil Japan Fish)

Amber to greenish-brown liq. Sp. gr. 0.928-0.933. M.P. 28-36°C. Acid No. 4-25. Hehner No. 95-97. Sap. No. 189-193. Iodine No. 181-193. Sol. ether, chloroform, benzine, carbon disulfide; insol. alcohol. Uses—mfr. soaps, degras; tanning leather; as lubricant. Grades—crude; refined.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 5-5760

Cole & De Graf, San Fran, Calif
Frey & Co, N Y
Haze, Harry, Inc, Chicago, Ill
Knapp, Harry G, St Louis, Mo
Moser, George, & Son, Inc, Detroit, Mich
Pacific Vegetable Oil Corp, San Fran, Calif
Roble, Milton F, S Braintree, Mass
Tench, H G, Co, Inc, Pittsburgh, Pa
Zimmerman, C L, Co, Cincinnati, O

OIL SEAL

Oil obtained from blubber of *Phoca Groenlandia* and other species of seals. First class oil is water white. Other grades range in color from yellow to dark brown. Sp. gr. 0.924-0.927. Uses—adulterants for linseed and cod liver oils, soap, tanning, inks and steel tempering.

Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

OIL SESAME (Beni Oil, Benne Oil, Gigely Oil, Gingili Oil, Gingelly Oil, Gingly Oil, Teal Oil, Teel Oil, Til Oil)

Natural yellow liq. From Sesame indicum. Sp. gr. 0.9210-0.9244 (15°C.). M.P. 26-32°C. Congeals at —5°C. Iodine No. 188-193. Sol. ether, carbon disulfide, benzine, chloroform. Uses—mfr. food and lubricating compositions, sweetmeats, confectionery, oleomargarine, vegetable butters, soaps, toilet preparations, cosmetics; as substitute for olive and almond oil; lubricant; in medicine. Grades—imported; domestic; tech.; edible; semi-refined.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Frey & Co, N Y

OIL SHARK LIVER (Shark Oil)

Reddish-yellow to light brown liq. Sp. gr. 0.9105-0.9260. Iodine No. 155. Sap. No. 140-173. Sol. ether, chloroform, benzene, carbon disulfide. Uses—mfr. leather dressings, paints, varnishes, soft soaps, textiles, oil-cloth, waterproofing, rubber substitutes; cod-liver oil adulterant. Grades—yellow strained; red; yellow; yellow-red; Japanese; crude; refined.

OIL SHARK LIVER (cont'd)

†Dawe's Vitamins, Inc, 4800 S Richmond St, Chicago, Ill	Virginia 3710
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
Maxim Chem Co, Inc, 44 Cliff St, N Y	Worth 4-0070
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
†Vitamins Inc, 809 W 58 St, Chicago, Ill	Normal 2727

Hardy, M W, & Co, Inc, N Y

NATURAL VITAMIN A

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feedstuffs **pharmaceuticals**

from 800 to 200,000 units per gram

• **shark** • **cod** • **whale**

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Since 1905, a dependable source of supply.

MAXIM CHEMICAL COMPANY, INC.
44 CLIFF STREET, NEW YORK 7, N. Y.

OIL SHINGLE

Light brown coal tar derivative. Use—as preservative or stain on wood, for ex. shingles.

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
†Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
†Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

OIL SOYA BEAN (Chinese Bean Oil, Bean Oil, Soja Bean Oil, Soy Oil)

Natural pale yellow liq. From soya beans—Soja hispida, etc. Sp. gr. 0.922-0.928 (15°C.). Solidifying point — 15 to — 8°C. Hehner No. 94-96. Sap. No. 190-193. Iodine No. 137-143. Sol. ether, chloroform, carbon disulfide; insol. alcohol. Uses—mfr. varnishes, paints, enamels, lacquers, soaps, candles, japans, printing and lithographic inks, cattle feeds, food compositions; adulterant and substitute for linseed oil; butter substitute; as illuminant; as food largely in China and Japan. Grades—crude; refined; edible.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
Dodwell & Co, Ltd, 120 Wall St, N Y	Hanover 2-1580
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†General Mills, Inc, Chem Div, 400 2 Av S, Minneapolis, Minn	Atlantic 1144
Grace, W R, & Co, 7 Hanover Sq, N Y	Whitehall 4-1200
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
†Staley, A E, Mfg Co, Decatur, Ill	4100
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383

Baker & Gaffney, Phila, Pa
Davidson Commission Co, Chicago, Ill
†Falk & Co, Pittsburgh, Pa
Frey & Co, N Y
†Glidden Co, Chicago, Ill
Krekel Goetz Sales & Supply Co, Grand Rapids, Mich
Moser, George, & Son, Inc, Detroit, Mich
†Pacific Vegetable Oil Corp, San Fran, Calif
Simmons Prods Co, Inc, N Y
†Southern Cotton Oil Co, N Y
Spencer, Kellogg, & Sons, Inc, Buffalo, N Y
Timberlake, Frederick H, Phila, Pa
Western Chems, Inc, Portland, Ore
Wilson Brokerage, N Y
Zimmerman, C L, Co, Cincinnati, O

OIL SPERM

Yellowish-brown, natural liq. From sperm whale. Sp. gr. 0.8781-0.8835. Sap. No. 123-147. Iodine No. 79.5-84. Acid No. 13.2. Sol. ether, chloroform, benzine, insol. alcohol. Uses—mfr. leather dressing and finishing compositions, soaps, matches; lubricating compositions; as lubricant; illuminant and burning oil; quenching oil in tempering steel. Grades—crude; natural; bleached winter as to cold test.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O	Woodbine 1-4690
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048

Kehew Bradley Co, Boston, Mass
†Neatsfoot Oil Refgs Corp, Phila, Pa
Nye, William F, Inc, New Bedford, Mass

SPERM OIL

AVAILABLE IN ANY AMOUNTS

Natural Winter • Bleached Winter
Bodied • Hydrogenated

Spermaceti Wax . . . Fatty Acids . . . Fatty Alcohols

THE WERNER G. SMITH CO.
(Div. of Archer-Daniels-Midland Company)
2191 W. 110th Street
CLEVELAND 2, OHIO
WOodbine 1-4690

Hydrofol PRODUCTS

OIL SULFONATED CASTOR

Castor oil was first used in 1870 for the preparation of sulfonated oil. See also Oils, Sulfonated.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Antara Prods, Gen! Aniline & Film Corp, 444 Madison Av, N Y	Plaza 9-8540
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Drew, E F, & Co Inc, 15 E 26 St N Y	Murray Hill 6-2800
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Hercules Powder Co, 978 Market St, Wilmington, Del	
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y	Beekman 3-3162
Petroleum Specialties, Inc, 205 E 42 St, N Y	Oregon 9-2310
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

†Amalgamated Chem Corp, Phila, Pa
Apex Chem Co, N Y
Craven, Sidney P, N Y
†Falk & Co, Pittsburgh, Pa
Leatex Chem Co, Phila, Pa
McNerney Chem Corp, Los Angeles, Calif
Neal, L W, Phila, Pa
†Reilly-Whiteman-Walton Co, Consbohocken, Pa
†Standard Chem Co, Phila, Pa
†Stepan Chem Co, Chicago, Ill
†Trask, Arthur C, Co, Chicago, Ill

OILS

MONOPOLE OIL
Highly concentrated, double Sulphonated Castor Oil

SULPHONATED OILS
Vegetable, Marine, Animal

BASE OILS **RAYON OILS**
SULPHONATED RED OIL **SOLUBLE PINE OILS**
WOOL SCOURING OILS **BOIL-OFF OILS**

JACQUES WOLF & CO.
Manufacturing Chemists & Importers
Passaic, N. J. • Carlstadt, N. J. • Los Angeles, Calif.

OIL SULFONATED COCONUT

Color—varies from pale yellow to brown. Mobile liquids to semi-solids. Soluble (emulsify) in water. Uses—plasticising, defoaming, dispersing, emulsifying, penetrating and softening agents.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
†Drew, E F, & Co Inc, 15 E 26 St N Y	Murray Hill 6-2800
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200

OIL SULFONATED COCONUT (cont'd)

Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

Leatex Chem Co, Phila, Pa

OIL SULFONATED COD

Color—varies from pale yellow to dark brown. Mobile liquids to semi-solids. Soluble (emulsifiable) in water. Uses—plasticising, defoaming, dispersing, emulsifying, penetrating, and softening agents.

†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Drew, E F, & Co Inc, 15 E 26 St N Y	Murray Hill 6-2800
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

†Kehew Bradley Co, Boston, Mass
Leatex Chem Co, Phila, Pa
†Trask, Arthur C, Co, Chicago, Ill

OIL SULFONATED NEATSFOOT

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

†Kehew Bradley Co, Boston, Mass
Leatex Chem Co, Phila, Pa
Meres & Gregg, Phila, Pa
†Neatsfoot Oil Refgs Corp, Phila, Pa
†Reilly-Whiteman-Walton Co, Conshohocken, Pa

OIL SULFONATED OLIVE

Color—varies from pale yellow to dark brown. Mobile liquids to semi-solids. Soluble (emulsifiable) in water. Uses—plasticising, defoaming, dispersing, emulsifying, penetrating, and softening agents.

Antara Prods, Genl Aniline & Film Corp, 444 Madison Av, N Y	Plaza 9-8540
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

Leatex Chem Co, Phila, Pa
Strohmeyer & Arpe Co, N Y

OIL SULFONATED SPERM

Color—varies from pale yellow to dark brown. Mobile liquids to semi-solids. Soluble (emulsifiable) in water. Uses—plasticising, defoaming, dispersing, emulsifying, penetrating, and softening agents.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

†Kehew Bradley Co, Boston, Mass
Leatex Chem Co, Phila, Pa
†Neatsfoot Oil Refgs Corp, Phila, Pa
†Swift & Co, Chicago, Ill

OIL SULFONATED TEASEED

Used as a substitute for sulfonated olive oil. See Oils, Sulfonated for descriptive material.

†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

Leatex Chem Co, Phila, Pa

OIL SUNFLOWER

Pale yellow liq, pleasant odor. Sp. gr. 0.924-0.926. Iodine No. 125 Refractive index 1.4611. Sol. ether, carbon disulfide, chloroform; insol. alcohol. Uses—mfr. soaps, varnishes; as illuminant; edible in Russia. Grades—crude; refined.

Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Maxim Chem Co, Inc, 44 Cliff St, N Y	Worth 4-0070
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

Frey & Co, N Y

TALL OIL

Crude, Semi-Refined and Refined

●

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OIL TALL

A vegetable oil, by-product of the manufacture of pulp, often called liquid rosin, used in formulating soaps and soap pastes, as an emulsifier, or wherever a high fatty acid is required, also in insecticide sprays, core oils, waterproofing, asphalt emulsification, coal dust sprays, etc. Supplied in crude and distilled grades.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Camp Mfg Co, 60 E 42 St, N Y	Murray Hill 7-4888
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Farey & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†Newport Industries Inc, 230 Park Av, N Y	Murray Hill 6-7305
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O	Woodbine 1-4690
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

Cole & De Graf, San Fran, Calif
Cooper, T G, & Co, Inc, Phila, Pa
†Gulf State Paper Corp, Tuscaloose, Ala
Haze, Harry, Inc, Chicago, Ill
Industrial Sales Corp, N Y
Landen Putty Wks, Malden, Mass
Rimco Trading Corp, N Y
Timberlake, Frederick H, Phila, Pa
Trask, Arthur C, Co, Chicago, Ill
Wilson, T C, Co, San Fran, Calif

OIL TALLOW (Oil Tallow Seed, Oil Stillingia)

Natural, pale yellow liq., linseed-like odor. From seeds of Stillingia sebifera. Sp. gr. 0.9432-0.9458. Saponification No. 210. Iodine No. 160. Insol. alcohol. Uses—mfr. lubricating compositions, candles, soaps, cutting oils; as lubricant; dressing and finishing agent; dyeing and printing calico; detergent. Grades—regular; acidless.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Grace, W R, & Co, 7 Hanover Sq, N Y	Whitehall 4-1200
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Marcus-Ruth-Jerome Co, 327 S LaSalle St, Chicago, Ill	Harrison 7-1760
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

Frey & Co, N Y
†Neatsfoot Oil Refgs Corp, Phila, Pa
Pacific Vegetable Oil Corp, San Fran, Calif
†Pfau's, George, Sons Co, Jeffersonville, Ind
Wilson Brokerage, N Y

OIL TALLOW (Acidless)

Pure animal product with titer of 40-41; acid not over 1%. Chief use—In lubricating compounds

†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hardesty, W C, Co, Inc, 41 E 42 St, N Y	Murray Hill 2-1920
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048

Frey & Co, N Y
Heap, F J, & Son, Inc, Boston, Mass
†Pfau's, George, Sons Co, Jeffersonville, Ind

OIL TAR (Pine-tar Oil, Rectified Tar Oil)

Colorless to dark reddish brown liq., tarry odor. From wood tar derived from Pinus palustris. Sp. gr. 0.862-0.872. Sol. ether,

OIL TAR (cont'd)

chloroform, carbon disulfide. Uses—mfr. insecticidal and germicidal compositions, pharmaceutical preparations; mineral flotation oil; general disinfectant; in medicine. Grades—tech.

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
†Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

†Glidden Co, Jacksonville, Fla — †Lewis Tar Prods Co, Lyons, Ill

OIL TAR ACID

Black liq. Sp. gr. 0.950-1.090. Sol. xylene. Uses—Source of tar acids (phenol, the cresols, xylenols, creavlic acid; also of tar bases) pyridine, the picolines, lutidines, parvolines, quinoline, etc., also in mfr. of disinfectants, sheep and animal dips. Grades—35 and 50% tar acids.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Concord Chem Co, Moorestown, N J — Moorestown 9-1100
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473

Crowley Tar Prods Co, Inc, N Y — †Inland Steel Co, Chicago, Ill
Dakota Briquets & Tar Prods, Inc, Dickenson, N Dak — †Lewis Tar Prods Co, Lyons, Ill

OIL TEASEED

Oil derived from special species of tea plants. Commercial oil is chiefly from the seeds of Thea sasangua, cultivated in Assam, China, Japan and elsewhere. Kernels contain up to 60% oil and are about 70% of the seed. Sp. gr. at 15°C. 0.915-0.919. Iodine number 58 to 87. Titre 13°C. to 145°C. Sap. value 190 to 195. Uses—refined for edible purposes; crude as a lubricant, etc.

Concord Chem Co, Moorestown, N J — Moorestown 9-1100
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y — Hanover 2-3750
Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Cooper, T G, & Co, Inc, Phila, Pa — Lundt & Co, N Y
Frey & Co, N Y — Pacific Vegetable Oil Corp,
Gillan, Charles, & Co, Inc, N Y — San Fran, Calif

OIL TURKEY RED (Alizarine Assistant, Oil Soluble, Oil Sulfonated)

Sulfonated castor oil and like. Sp. gr. 0.95. Iodine No. 82.1. Acid No. 174.3. Saponification No. 189.3 Sol. water. Uses—mfr. soaps; assistant in dyeing and printing textiles; treating and finishing leather. Grades—sulfonated castor oil graded as to color and moisture content.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2955
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Eimer & Amend, Greenwich & Morton Sts, N Y — Chelsea 3-4300
Elbert & Co, Inc, 2 Bway, N Y — **Digby 8-2670**
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 9-0600
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Binnlee 3-0700
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310
Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Apex Chem Co, N Y — †Stepan Chem Co, Chicago, Ill
Leatex Chem Co, Phila, Pa — †Trask, Arthur C, Co, Chicago, Ill
Standard Soap Co of Camden, Camden, N J

OIL TURPENTINE

"Spirit of Turpentine" volatile oil distilled from the oleoresin obtained from Pinus palustris. Colorless liquid; characteristic odor and taste both becoming more pronounced and less agreeable on aging or exposure to air. Sp. Gr. 0.864-0.868. Insoluble in water Uses—solvent for oils, resins, etc., for varnishes; vehicle for paints Extern. in embrocations liniments, etc. For internal use, the Rectified oil should be used.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Concord Chem Co, Moorestown, N J — Moorestown 9-1100
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100

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Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Lonsdale 1-2146
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Krekel Goetz Sales & Supply Co, Grand Rapids, Mich — Tench, H G, Co, Inc, Pittsburgh, Pa
†West Co, Chelsea, Mass

OIL WALNUT

Colorless or pale yellowish green liq., pleasant odor, nutty taste. From seeds of Juglas regia. Sp. gr. 0.919-0.929. Sap. No. 188-196. Iodine No. 143-148. Sol. ether, chloroform, carbon bisulfide; insol. alcohol. Uses—mfr. varnishes and paints. Grades—tech.

Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

†Pacific Vegetable Oil Corp, San Fran, Calif

OIL WHALE (Oil Blubber, Oil Body, Oil Train)

Yellowish-brown natural liq., strong fishy odor. From blubber of whale. Sp. gr. 0.925-0.930. M.P. 14-27.0°C. Sap. No. 188-193. Iodine No. 120. Acid No. 0.5-37. Sol. ether, benzene, chloroform, carbon disulfide; insol. alcohol. Uses—mfr. soaps, lubricating, leather finishing and dressing compositions, insecticides, fats by hydrogenation, sheep dips; as tallow substitute in oleomargarine, edible fats and oils; quenching steel in tempering; treating jute; tanning leather; as illuminant. Grades—crude No. 1 and No. 2; natural winter; bleached winter.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

OIL, WHEAT GERM

Obtained from fresh wheat germ. Uses—natural source of vitamin E.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

OILS DRYING (Paint Makers')

Oils which possess to a marked degree the property of readily oxidizing to a relatively hard, tough, elastic substance. In practice certain oils possessing these characteristics of a drying oil to a lesser degree are termed semi-drying oils. See also: Oils, Chinawood, Linseed, Perilla, Soybean, Menhaden, Sardine, etc.

†Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
†Baker Caster Oil Co, 119 Bway, N Y — Digby 9-0500
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
Pan Amer Refg Corp, 122 E 42 St, N Y — Lexington 2-4322
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Ackerman, J C, Co, Pittsburgh, Pa — Osgood, D H, Co, Detroit, Mich
†Brazil Oiliteics, Inc, N Y — †Pacific Vegetable Oil Corp, San Fran, Calif
Krekel Goetz Sales & Supply Co, Grand Rapids, Mich — Spencer, Kellogg, & Sons, Inc, Buffalo, N Y
Moser, George, & Son, Inc, Detroit, Mich — Tabler, Wm B, Co, Louisville, Ky

OILS, DRYING, SYNTHETIC

Modified oils, such as castor, soybean, linseed, and various animal oils, which have been chemically modified by procedures as catalytic dehydration, or production of synthetic glycerides by the re-esterification of fractionally distilled fatty acids. Uses—varnish, enamels,

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†Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
†Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
†Baker Caster Oil Co, 119 Bway, N Y — Digby 9-0500
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Pan Amer Refg Corp, 122 E 42 St, N Y — Lexington 2-4322
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Woburn Chem Corp, Harrison, N J — Kearny 2-3300
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383

Spencer, Kellogg, & Sons, Inc, Buffalo, N Y

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City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Dalton-Cooper Inc, 200 W 34 St, N Y	Longacre 4-2910
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895

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†Giraudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
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Sole Agents for Roure Bertrand Fils & Justin Dupont, Grasse, France

†Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Parker, Herbert H, 2 Bway, N Y	Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970

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Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200

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OILS ESSENTIAL (cont'd)

†Roure-Du Pont Inc, 366 Madison Av, N Y — Vanderbilt 6-5830
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

Ackerman, J C, Co, Pittsburgh, Pa
Anton-Murray Co, Chicago, Ill
Busschaert, P S, Inc, N Y
†Chaleyer, Ph, Inc, N Y
Gitlan, Charles, & Co, Inc, N Y
Hardy, M W, & Co, Inc, N Y
Laist, H R, Co, San Fran, Calif
Laning, E M, Co, Irvington, N J
Lyon, Julian W, N Y
McNerney Chem Corp, Los Angeles, Calif
Manheimer, J, N Y
Noville Essential Oil Co, N Y
Ryland, H C, Inc, N Y
Seebach, Edwin, Co, N Y

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OILS FISH

Fish oils would include all oils expressed or extracted from various types of fish and would include cod, sperm, seal, and codliver oils, but in trade usage the term includes those oils which find special application in paint, linoleum, oil-cloth formulation, in thinning oils, soaps, etc., or combinations of fish oils used for these purposes. The most commonly used are menhaden, sardine, herring, salmon, whale, etc. See Oil, Menhaden; Oil, Sardine; Oil, Herring; Oil, Salmon; Oil, Whale.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
†Mearl Corp, 153 Waverly Pl, N Y — Chelsea 2-3680
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Davidson Commission Co, Chicago, Ill
†Falk & Co, Pittsburgh, Pa
Frey & Co, N Y
Krekel Goetz Sales & Supply Co, Grand Rapids, Mich
Pacific Vegetable Oil Corp, San Fran, Calif
Wilson Brokerage, N Y
Winther, S A, & Co, Inc, San Fran, Calif
Zimmerman, C L, Co, Cincinnati, O

OILS FISH (Hydrogenated)

Various fish oils treated with hydrogen in presence of catalyst to produce a stearic acid substitute. White to grayish mixture of different fats. Grade—depends upon its titer and iodine number. Uses—cosmetics, mfg high grade and metallic soaps (which are used in dusting powders), as stearic acid substitute for ex. in production of rubber tires.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

OILS FISH (Kettle Bodied)

Fish oils which have been heat-treated and bodied in kettle to increase the viscosity or body of the oils. This produces a better flow, brushability, higher gloss and low acid number. Amber color; fish odor has been oxidized and resultant odor is therefore lighter. Uses—printing ink, silk screen printing, paints, enamels, mill white, patent leather, linoleum, varnishes.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Falk & Co, Pittsburgh, Pa

OILS FISH BLOWN

Various fish oils which have been subjected to prolonged heating and blowing of air through the mass, increasing the viscosity and specific gravity thereby.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Falk & Co, Pittsburgh, Pa
†Pacific Vegetable Oil Corp, San Fran, Calif
Zimmerman, C L, Co, Cincinnati, O

OILS FISH LIVER

Yellowish-brown to reddish-brown liquids. Sol. ether, chloroform, alcohol, and carbon bisulfide. Uses—Source of vitamin A and D in medicine, poultry and stock feeding,; leather dressing; chamois leather tanning.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Dawe's Vitamins, Inc, 4800 S Richmond St, Chicago, Ill — Virgina 3710
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070

OILS FISH LIVER (cont'd)

†Mearl Corp, 153 Waverly Pl, N Y — Chelsea 2-3680
†Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727
Murbas Trading Co, N Y

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OILS HYDROGENATED

Prepared by adding additional hydrogen to oils whose molecules are unsaturated as regards hydrogen. This is done in the presence of finely divided nickel as a catalyst. The process is complex and there are many variations. Hydrogenation may be stopped at any stage, and very hard fats may be mixed with untreated oils so that any degree of hardness or softness is obtainable. The principal use for hardened oils is for cooking and in the manufacture of soap. Fish oils when hydrogenated lose most of their disagreeable odor and in this form can be used in soap kettles and also are used in paint formulation.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Boler Petroleum Co, 121 So Broad St, Phila, Pa — Kingsley 5-1323
Concord Chem Co, Moorestown, N J — Moorestown 9-1100
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Southern Cotton Oil Co, N Y — †Swift & Co, Chicago, Ill

OILS NEUTRAL

Any number of different oils which may be used for lubricating purposes, the one requirement being that the oil must be a distillate. Neutral oils are often mixed with animal and vegetable oils.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Lewis Tar Prods Co, Lyons, Ill

OILS NEUTRAL (Coal-Tar)

Trade term for refined coal-tar oils.

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
†Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

OILS SULFONATED

Sulfonated oils are products of the action of strong sulfuric acid on vegetable, animal, and mineral oils; also their fatty acids, and alcohols. They are available at the present time for use in a wide variety of processes in the textile, leather, metal and miscellaneous industries as follows: sulfonated castor oil, olive oil, neatsfoot oil, lard oil, rape oil, mustard seed oil, tea seed oil, sunflower oil, tallow-moleic acid (red oil), cod oil, herring oil, whale oil, sperm oil, coconut oil, palm kernel oil, palm oil, degras, fatty acids of the foregoing oils, fatty alcohols, and products from mineral oil refining. All these have special physical characteristics useful for specific purposes. Sulfonated oils were originally used for the mordanting of cotton. With improvement in solubility their use has been gradually developed as softeners, as detergents, and as wetting agents. U. S Bureau of Standards in Commercial Standard CS43-32 defines sulfonated oils; the term "sulfonated oil" shall designate the product of interaction between a saponifiable oil or fat or its fatty acids, or a mixture of saponifiable oils or fats or their fatty acids, and sulfuric acid or similar sulfonating agent, the reaction to take place under such conditions that some or all of the oil is converted into a sulfate. With the exception of water and alkali, it shall contain no other admixture. A sulfonated oil of any particular designation shall contain no other oil or fat, except the kind designated.

Technical and Edible

OILS

- Castor
- Cocoanut
- Corn
- Cottonseed
- Lard
- Linseed
- Mineral
- Babassu
- Rice Bran
- Neatsfoot
- Palm
- Peanut
- Petrolatums
- Red (Oleic)
- Sesame
- Soybean
- Tall

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OILS SULFONATED (cont'd)

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120

SULPHONATED OILS

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(Coning oils, wool oils, finishing oils and base oils)

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NO-ODOROL* Sulfonated Oils

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Penetrants

DECERESOL* Wetting Agents

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30 Rockefeller Plaza, New York 20, N. Y.
*Reg. U. S. Pat. Off.

OILS SULFONATED (cont'd)

Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

†Ritter Chem Co, Amsterdam, N Y
†Royce Chem Co, Carlton Hill, N J
†Stepan Chem Co, Chicago, Ill
†Trask, Arthur C, Co, Chicago, Ill
†Universal Chem Co, Boston, Mass
†Warwick Chem Co, Long Is City, N Y

OILS TANNING

Primary function of oils in tanning operations is the lubrication of the collagen bundles, which form the larger portion of the hide, so that they will not glue together resulting in a hard, brittle leather. Many oils and fats are used: tallow and oleo-stearine for stuffing harness, strap and belting leather; neutral oils such as cod, neatsfoot oil, castor, mineral, etc. See also Fat Liquors; Oils, Sulfonated; Tallow, Sulfonated.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

Leatex Chem Co, Phila, Pa
†Neatsfoot Oil Refgs Corp, Phila, Pa
†Ritter Chem Co, Amsterdam, N Y

OILS TERPENELESS

Specialized oils used in place of essential oils; characterized by great strength, solubility, slow rate of deterioration, and ability to withstand exposure to the air or subjection to heat in manufacturing processes.

†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
†Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Roure-Du Pont Inc, 366 Madison Av, N Y	Vanderbilt 6-5830
†Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700

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OILS VEGETABLE—see also individual names such as oil, castor; oil, cocoanut; oil, corn; etc.)

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Dalton-Cooper Inc, 200 W 34 St, N Y	Longacre 4-2910
Dodwell & Co, Ltd, 120 Wall St, N Y	Hanover 2-1580
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Maxim Chem Co, Inc, 44 Cliff St, N Y	Worth 4-0070
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

Frey & Co, N Y
Furnam, James H, Co, Chicago, Ill
Hardy, M W, & Co, Inc, N Y
Hueston, C L, Detroit, Mich
†Pacific Vegetable Oil Corp, San Fran, Calif
Snow & Co, Los Angeles, Calif
†Southern Cotton Oil Co, N Y
Spencer, Kellogg, & Sons, Inc, Buffalo, N Y
Winther, S A, & Co, Inc, San Fran, Calif

VEGETABLE OILS

DOMESTIC
- linseed
- soy
- refined fish

IMPORTED
- castor
- chinawood
- cottonseed
- kapok
- palm
- palm kernel
- palm
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- shea
- sunflower

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H_2SO_4 with free SO_3. Colorless or slightly colored, viscous liquid, emitting choking fumes of sulfur trioxide. Extremely corrosive. Sulfating and sulfonating agent.

†Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas — CA2371
†Cornwell Chem Corp, Cornwells Hgts, Pa — Cornwells 0302
†Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146

OLIVE OIL FOOTS—see also Olive Oil

Residues from extractions of olive oil. Uses—mfr. soaps, manures, cattle food. Grades—prime green; brown.

McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Frey & Co, N Y — Sergeant, E M, Pulp & Chem Co, Inc, N Y

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$C_6H_3(CH_3)(OH)_2$. M.W. 124.0. White crystal. pwdr. Becomes red with age. Sp. gr. 1.289; M.P. 107°C. B.P. 287°C. Uses—as an antiseptic; as a reagent for pentoses; as a stain.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Eastern Chem Corp, Newark, N J

ORGANO MERCURY COMPOUNDS

†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Jovafa Prods Co, 894 Whittier St, Bronx, N Y — Davlon 3-1137
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959

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Extract made from bark of shrub Maclura aurantica, native of U. S. Uses tanning and textile industries. Grades—liq. 42 deg.; powdered.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720

OSMIUM

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0252
Baker & Co, Inc, Newark, N J — Mackay, A D, Inc, N Y

OX GALL (Fel Bovis)

Yellowish-green liq., unpleasant odor. From bile of ox. Uses—as soap ingredient; cleansing agent; in engraving and lithography scouring wool; in medicine. Grades—tech.; U.S.P. extract.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

OXAMIDE

†Arapahoe Chems Inc, 2800 Pearl St, Boulder, Colo — 613
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Stanetal Corp, Linden, N J

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O_2. Colorless, odorless, tasteless gas. Sp. gr. 1.0535. F.P. 218.4°C. B.P. —183.0°C. Sol. molten silver; slightly sol. water. Uses—mfr. gas, oxygenated waters; cutting and welding flames with acetylene; promoting fuel combustion; bleaching paper and pulp; oxidation of oils; maturing of wines and vinegars; in medicine. Grades—tech.; pure; U.S.P.

Air Reduction Sales Co, N Y
†Amer Oxygen Service Corp, Harrison, N J
†Edison, Thomas A, Inc, Stuyvesant Falls, N Y
†Linde Air Prods Co, N Y
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio
Pittsburgh Thermoline Co, Pittsburgh, Pa
†Stuart Oxygen Co, San Fran, Calif

OXYQUINOLINE

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543

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OXYQUINOLINE (cont'd)

Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
*Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

OXYQUINOLINE BENZOATE

Use: in medicine as bacteriostatic.

†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870

OXYQUINOLINE CITRATE (8-Hydroxyquinoline Citrate)

Approx. $C_9H_7ON.C_6H_8O_7$. M.W. 337. Yellow crystalline powder; saffron-like odor. Freely sol. water. Use: in medicine as bacteriostatic.

†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000

OXYQUINOLINE SULFATE

$(C_9H_7NO)_2H_2SO_4$. M.W. 388.29. Yellow crystalline powder. Slight saffron odor, burning taste. M.P. 175-176°C. Uses—medicinal, antiseptic.

†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870

PALLADIUM

Pd. An element, silvery-white metal. At.Wg. 106.7. Sp. gr. 11.4 (22.5°C.). M.P. 1555°C. Insol. water, sol. aqua regia and hot acids. Uses—catalytic agent; hydrogen absorbent; jewelry.

Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232

†Amer Metal Co, Ltd, N Y
†Anaconda Copper Mining Co, N Y
Baker & Co, Inc, Newark, N J
†Bishop, J, & Co Platinum Wks, Malvern, Pa
†Hagston, T B, & Son, Phila, Pa
Mackay, A D, Inc, N Y

PALLADIUM CHLORIDE (Palladous Chloride, Palladium Bichloride)

$PdCl_2.2H_2O$. Dark brown, deliq. powd. M.P. 501°C. Sol. water, hydrochloric acid. Uses—mfr. writing, printing and indelible inks, steatite, porcelains, electroplating photographic toning agents; mordant in dyeing and printing textiles; laboratory reagent; local germicide; analytical chemistry; detecting carbon monoxide gas; wood cleaning; metal scouring; removing iron and mold from textiles; in medicine. Grades—tech

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232
†Bishop, J, & Co Platinum Wks, Malvern, Pa

PALMITOYL CHLORIDE

†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Emulsol Corp, Chicago, Ill

PARA Compounds—Listed under first word following Para

PARAFFIN (Chlorinated)

Light yellow to light amber; odorless. Percentage of chlorine varies. Uses—solvent for dichloramine, high pressure lubricant, flame-proofing of textiles especially canvas and electrical insulation.

Advance Solvents & Chem Corp, 245 S Av, N Y — Murray Hill 9-2620
†Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
†Hercules Powder Co, 978 Market St, Wilmington, Del
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

PARAFORMALDEHYDE (Paraform, Trioxymethylene, Trifermol, Polymerized Formic Aldehyde)

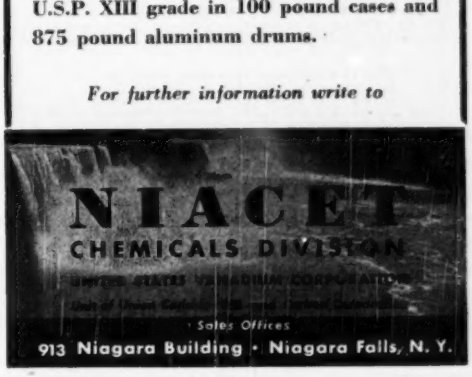
$(CH_2O)_3$. M.W. 90.04. White, crystalline powd., odor formaldehyde M.P. 162°C. Sol. water; insol. alcohol, ether. Uses—mfr. pharmaceutical preparations, artificial ivory and horn, aldehyde resins; waterproofing glues; as a germicide, fungicide, deodorant, fumigant See also Formaldehyde. Grades—U.S.P. (95%) powdered.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121

Celanese
CHEMICALS
PARAFORMALDEHYDE
FORMALDEHYDE • PROPIONALDEHYDE • ACETALDEHYDE
ALCOHOLS • SOLVENTS • KETONES
INTERMEDIATES • ACIDS • PLASTICIZERS
See Celanese Advertisement in Catalog Section
CELANESE CORPORATION OF AMERICA
Chemical Div., Dept. 61, 180 Madison Ave., New York 16
Sales Representatives:
NEW YORK • BOSTON • CHICAGO • DETROIT • SAN FRANCISCO
*Reg. U. S. Pat. Off.

Elbert & Co, Inc, 2 Bway, N Y — Digby 3-2670
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

PARALDEHYDE
TECHNICAL and U.S.P. XIII
For use in production of resins, chloral and dyestuffs. A convenient source of Acetaldehyde by decomposition with a mineral acid.
Shipments of technical grade in 435 pound net drums and 65,000 pound net tank cars; U.S.P. XIII grade in 100 pound cases and 875 pound aluminum drums.
For further information write to



PARALDEHYDE—see also Aldol

$(CH_3CHO)_3$. M.W. 132.09. Colorless liq., pleasant odor. Sp. gr. 0.9943; M.P. 10.5°C. B.P. 124°C. Congeals at or below 11.6°C. Sol. water; miscible alcohol, ether, chloroform, volatile oils. Uses—

PARALDEHYDE (cont'd)

mfr. dyestuffs, intermediates, organic chemicals; as disinfectant; in medicine. Grades—commercial; pharmaceutical.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243

PARATHION (O,O-Diethyl-o-p-Nitrophenyl Thiophosphate; Diethyl p-Nitrophenyl Thionophosphate)

$C_{10}H_{14}O_5PSN$. M.W. 291. Dark brown liquid. Miscible with aromatic and polar solvents; slightly sol. kerosene, petroleum ether, other paraffinic solvents, water. Use: active ingredient in insecticides.

†Amer Cyanamid Co, Agric Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Eston Chems Inc, 3100 E 26 St, Los Angeles, Calif — Angelus 9-8183
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Michigan Chem Corp, St. Louis, Michigan — 41
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Niagara Chem Div, Food Machy & Chem Corp, Middleport, N Y

PEARL ESSENCE

Product obtained from fish scales, e. g. of European minnow or herring, which is used on materials to obtain a highly lustrous coating; as, in imitation pearls.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Argenta Prods Co, Eastport, Maine — Washington Color & Chem Co, Seattle, Wash
Petow, Edward I, & Son, Hyannis, Mass
Taussig, F H, Chems, N Y

Pearl Essence
for
DECORATIVE FINISHES
NAIL POLISH
PLASTICS
THE MEARL CORPORATION
153 Waverly Place New York 14, N. Y.

PECTIN

Complex vegetable carbohydrate found in fruit juices. Being natural material, it is not uniform in strength. An arbitrary standard has been set which depends on several factors. In other words, a #100 pectin would jellify 100 lbs. of sugar combined with water or juices, so as to give a 65% sugar content in finished product having pH of 3.00.

Standardizing is accomplished by checking finished pectin and diluting with sufficient quantity anhydrous corn sugar to give strength of above standard. For export purposes, to reduce freight and space, a #160 grade is frequently sold. Newer developments of pectin are not entirely dependent on jellying strength, for this reason it appears inadvisable to dilute with sugars, the pectin being sold in as pure state as possible, with statement of jellying strength, which might be #140, #160, #185 or possibly #200. Uses—in drug trade, quenching of steel, binder for tablets, as stabilizer, and generally where active protective colloid is desired, or where controlled viscosities are required.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Gumport, E, Corp, 75 West St, N Y — Whitehall 4-9199
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

Colyer Co, N Y

PENICILLIN

Potent antibiotic obtained from the culture liquor of several species of the mold **PENICILLIUM.** Yellow powder. Sol. water. Low degree of toxicity, bacteriostatic, both in vivo and in vitro, against most Gram-positive, aerobic and anaerobic organisms.

TERRAMYCIN HYDROCHLORIDE
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PENICILLIN
Procaine - Potassium - Sodium
•
STREPTOMYCIN SULFATE
•
DIHYDROSTREPTOMYCIN SULFATE
Chas. PFIZER & Co., Inc.
Manufacturing Chemists Since 1849
630 Flushing Ave., Brooklyn 6, N. Y. — 625 N. Michigan Ave., Chicago 11, Ill. — 85 Fifth St., San Francisco, Calif.

PENICILLIN (cont'd)

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Pfizer, Chas. & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Legion Export & Import Co, Inc, N Y — MacHale, A J, N Y

PENTACHLORODIPHENYL OXIDE

†Dow Chem Co, Midland, Mich — Midland 500

PENTACHLORETHANE

C_2HCl_5. Heavy, high-boiling liq. M.W. 202.3. Sp. gr. 1.685 (at 15°/4°C.). Pounds per gal. 14.1. B.P. 159.1°C. F.P. —22.0°C. Vap. Den. at 15°C. Lbs. per cu. ft. 0.535. Lat. Heat of Vap. B.t.u. per lb. 78.5. Sp. Heat of Liq. Cal./Kg./°C. or B.t.u./lb./°F. 0.266 at 20°C. Uses—sol. properties similar to tetrachlorethane, in coal mining for separation of coal from impurities.

†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121

PENTACHLOROPHENOL

C_6Cl_5OH. M.W. 266.86. White, crystalline solid. Sol. in alcohol and ether. Sp. gr. 1.978 at 22° C. M.P. 188-189° C. Uses—mfr. germicides, insecticides, and fungicides; mfr. wood preservatives.

Chapman Chem Co, Dermon Bldg, Memphis, Tenn — 37-8316
†Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
†Dow Chem Co, Midland, Mich — Midland 500
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201

PENTACHLOROPHENOL TECHNICAL
Sold by Monsanto under the trade name SANTOPHEN 20, pentachlorophenol, when properly formulated, is a powerful moldproofing and termiteproofing agent for wood, cellulosic products, textiles, and serves as an active ingredient in herbicide formulations.
For complete information, write
MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
1700 South Second Street
St. Louis 4, Mo.
Santophen: Reg. U.S. Pat. Off.
MONSANTO CHEMICALS PLASTICS
SERVING INDUSTRY . . . WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

PENTAERYTHRITOL

$C(CH_2OH)_4$. White amorph. powd. Sp. gr. 1.35 (20°C.). M.P. 260°C. B.P. 280°C. at 30 mm. Hg. Soluble water, sl. sol. methanol, insol. carbon tetrachloride, ether. Uses—resin, mfr. explosives. Grades—tech. M.P. 220°C. C.P. 240°C.

PENTAERYTHRITOL

Exclusive Sales Agents for Delaware Chemicals, Inc.

R. W. GREEFF & CO., INC.
10 Rockefeller Plaza, New York 20, N. Y.
2205 Tribune Tower, Chicago, Ill.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y	Circle 6-9680
†Hercules Powder Co, 978 Market St, Wilmington, Del	Pennsylvania 6-9000
†Heyden Chem Corp, 393 7 Av, N Y	Digby 9-4735
Mutchler Chem Co, Inc, 258 Bway, N Y	45201
†Trojan Powder Co, Allentown, Pa	Watkins 9-0870
Uhe, George, Co, Inc, 75 S Av, N Y	Whitehall 3-5760
Wharry, G A, & Co, Inc, 95 Broad St, N Y	

PENTEK®

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Irreplaceable in alkyds, rosin esters or drying oils for the production of superior protective coatings. Intermediate for plasticizers, emulsifiers, waxes, etc. Also:

MONOPENTEK®
(Monopentaerythritol)

DIPENTEK® (Dipentaerythritol, Tech.)

TRIPENTEK® (Tripentaerythritol, Tech.)

PENTAERYTHRITOL, Purified
(Nitration Grade)

HEYDEN CHEMICAL CORPORATION
393 SEVENTH AVE., NEW YORK 1, N.Y.
CHICAGO 6 - PHILADELPHIA 3 - SAN FRANCISCO 11 - DETROIT 1 - QUAMFORD 16, R.I.

PENTAERYTHRITOL TETRA NITRATE (PETN)

$C(CH_2NO_3)_4$. M.W. 316. White crystals. Use: explosive.

†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del	Wilmington 4-5121
†Trojan Powder Co, Allentown, Pa	45201

PENTAERYTHRITOLS

Pure
Technical
Di-
Tri- or Poly-

TROJAN POWDER COMPANY
Allentown, Pa.

PENTAMETHYLENE DIBROMIDE

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Halogen Chems, Inc, 616 King St, Columbia, S C	7125
†Sapon Labs, Bklyn, N Y	

PENTAMETHYLENE TETRAZOLE

†Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1518
Panray Corp, N Y	

PENTANE (Amylhydride)

C_5H_{12}. M.W. 72.12. Colorless liq. Commercial grade has a boiling range 30-40°C. Sp. gr. 0.631. Uses—organic synthesis, solvents. Normal grade has a boiling range of 35-37°C. and sp. gr. .361. Uses—largely research and experimental work; in refrigerators; as an anaesthetic; filling thermometers.

Amer Mineral Spirits Co, 153 E 44 St, N Y	Murray Hill 2-6490
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600
†Skelly Oil Co, Kansas City, Mo	

Phillips 66 HYDROCARBONS

COMMERCIAL GRADE
NORMAL PENTANE

PHILLIPS PETROLEUM COMPANY
Chemical Products Department
BARTLESVILLE, OKLAHOMA

PENTANEDIOL

†Halogen Chems, Inc, 616 King St, Columbia, S C	7125

PENTENE-1

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600

PENTENE-2

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

PERCHLORATES

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

PERIODATES

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

PETROLATUM (Petroleum Jelly, Mineral Fat, Petroleum Ointment, Cosmoline, Saxoline, Fossolin, Adeps Mineralis)

Light yellow to amber, semi-solid amorp. Sp. gr. 0.820-0.850. M.P. 45-48°C. Sol. chloroform, ether, benzine, carbon disulfide, benzene, oils; very slightly sol. water, alcohol. Uses—mfr. lubricating compositions, shoe and metal polishes, leather greases, soaps, rust

PETROLATUM (cont'd)

preventative coatings, pharmaceutical salves and ointments, perfume preparations, pomades, cosmetic creams; in printing trade; modeling clay; in medicine. Grades—U.S.P.; snow white; lily white; cream white; extra amber; light amber; dark amber; green; petrolatum liq.; natural; artificial. See Oil Mineral.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
Boiler Petroleum Co, 121 So Broad St, Phila, Pa — Kingsley 5-1323
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Allied Wax & Oil Prods Corp, N Y
Chatham Petroleum Co, Inc, N Y
†Chesebrough Mfg Co, N Y
Cincinnati Oil Wks Co, Cincinnati, O
Cohen, Harry, Atlanta, Ga
Cole & De Graf, San Fran, Calif
Drummond, S P, Inc, N Y
Kuhne-Libby Co, N Y
McNerney Chem Corp, Los Angeles, Calif
National Wax Co, Chicago, Ill
Oil States Petroleum Co, Inc, N Y
†Penn Refg Co, Cleveland, O
†Sherwood Refg Co, Inc, Englewood, N J

PETROLEUM ETHER (Canadol, Benzinum, Light Ligroin, Petroleum Naphtha, Mineral Spirits)—see also Benzine

Colorless liq. distilled from petroleum. Sp. gr. 0.635-0.660. B.P. 40-70°C. Sol. alcohol, ether, chloroform, benzene, fixed and volatile oils. Uses—as solvent. Grades—tech.; C.P.; U.S.P.

Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

†Skelly Oil Co, Kansas City, Mo

PHENANTHRENE (Phenanthrin, Orthodiphenylene-Ethylene)

$(C_6H_4CH)_2$. Colorless small cryst. Sp. gr. 1.025. M.P. 99.6°C. B.P. 340°C. Sol. hot alcohol, ether, benzene, carbon disulfide, acetic acid; insol. water. Uses—mfr. dyestuffs, nitroglycerin explosive compositions, pharmaceuticals; stabilizer in nitrocellulose explosives; in medicine. Grades—tech.

Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536

1,10-o-PHENANTHROLINES

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

o-PHENETIDINE

$C_8H_{11}NO$. M.W. 137. Dark red liq. Dist. Range 230.5°C. to 233.5°C. Weight per gal. 8½ lbs. approx. Uses—mfr. Phenetole Red and other dyes and dry colors; for mfr. of a red lake coupled with Beta-naphthol. Ship Class.—dye intermediate.

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

p-PHENETIDINE

$C_8H_{11}ON$. M.W. 137.09. Colorless solid. Sp. gr. 1.0613 (15°C.). M.P. 2.4°C. B.P. 254.2°C. Sol. water, alcohol, ether. Uses—mfr. dyestuffs, pharmaceuticals, dulcin, phenacetin, phenosal; in medicine. Grades—tech. (98%).

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

PHENETOLE (Phenyl Ethyl Ether)

$C_6H_5OC_2H_5$. M.W. 122.16. Colorless liquid. 172° C. Sp. gr. 0.967 at 20/4° C. Insol. water; sol. in alcohol and ether.

†Dow Chem Co, Midland, Mich — Midland 500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

PHENOBARBITAL (Phenylethylbarbituric Acid)

M.W. 232.11. M.P. 173-177°C. White, glistening, small crystals or white, crystalline powder. Odorless. Stable in air. Sol. alcohol. Sltl. Sol. water. Uses—medicinal.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785

PHENOBARBITAL (cont'd)

Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661

Fine Chemicals = BPC =

PHENOBARBITAL
PENTOBARBITAL

BENZOL PRODUCTS CO.
237 SOUTH STREET — NEWARK 5, N. J.

McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Bodman, F L, Inc, Phila, Pa

PIGMENTS afc SOLVENTS

PHENOL U.S.P.

PLASTICIZERS · INTERMEDIATES
INDUSTRIAL CHEMICALS

american FIRSTOLINE CORPORATION
420 LEXINGTON AVE., N. Y. 17, N. Y. MU-3-3203

PHENOL (Hydroxybenzene, Acid Phenic, Acid Phenylic, Phenyl Hydrate, Phenylhydroxide, Phenylic Alcohol)—see also Acid Carbolic, Crystals

C_6H_5OH. White cryst. Sp. gr. 1.072 (20°C.). M.P. 42.5-43°C. B.P. 183°C. Sol. alcohol, ether, water, carbon disulfide, petroleum,

PHENOL

and Cresols
Cresylic Acids Xylenols
Special Tar Acids Tar Acid Oils

THE BARRETT DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR ST., NEW YORK 6, N.Y.

Barrett

One of America's Great Basic Businesses

Reg. U. S. Pat. Off.

PHENOL USP

Cresols Plasticizers

Naphthalene

CHEMATAR, INC.

40 Exchange Place New York 5, N. Y.

Telephone: HAnover 2-0364

Cable Address: TARACHEM

PHENOL (cont'd)

fixed or volatile oils, chloroform, glycerine, alkalies. Uses—mfr. intermediates, organic chemicals, synth. drugs, dyes and perfumes, phenolates, phenates, salicylic acid, phenacetin, formaldehyde, diphenyloxide, para-aminophenol, hydroquinone, chloranil, picric acid, nitrated phenol explosives, salol, phenolphthalein, phenyl esters, mercury derivatives, azidine green, aurin, brilliant yellow, diazin black and numerous other dyes, germicidal compositions, antiseptic cleansing preparations, artificial tannins, synth. resins by condensation with formaldehyde, coumarine, anisaldehyde and other synth. perfumes, paints, varnishes, paint and varnish removers, phonograph records, synth. insulating materials, photographic developers, plastic compositions, synth. rubber, disinfectant soaps, detergents; as general preservative and disinfectant; developing agent in dyeing and printing textiles; preservative for glues and adhesives; camphor substitute in celluloid; removing ink from old newspapers; in medicine; in brewing Grades—crude; C.P.; fused; cryst; synth.; liq.

PHENOL (cont'd)

Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Dow Chem Co, Midland, Mich	Midland 500
Eibert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939

INDUSTRIAL CHEMICALS

Phenol, Sodium Sulfite, Sodium Sulfate, Maleic Anhydride, Phthalic Anhydride, Glycerine

REICHHOLD CHEMICALS, INC.

DETROIT, MICHIGAN

Brooklyn, N. Y. Elizabeth, N. J.

Tuscaloosa, Ala. Seattle, Wash.

So. San Francisco, Calif.

Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980

PHENOL

DOW

THE DOW CHEMICAL COMPANY

Midland Michigan

Producing over 600 Chemical Products

Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.

See listing ad for other products

PHENOL

ALL GRADES and other Chemicals, Solvents and Coal Tar Products

Republic Chemical Corp.

94 Beekman Street, New York 7

Cable Address: Jaynivrad

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364

✚†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903

PHENOL, U.S.P.

Standard Forms: Crystalline solid, U.S.P. or liquid.

Monsanto Chemical Company

Organic Chemicals Division

St. Louis 4, Mo.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY... WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

Phenol

REINHART

Chemical Corporation

CHRYSLER BUILDING, NEW YORK 17, N. Y.

MURRAY HILL 6-8536 • CABLE: RECHEMCORP

Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich	Jordan 4-6500
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461

U·S·S Phenol

Resin Grades—82% and 90%
Available in tank cars and 55-gallon drums

COAL CHEMICAL SALES DIVISION
United States Steel Corporation Subsidiaries
71 Broadway, New York 6, N. Y.

COAL CHEMICALS
UNITED STATES STEEL

PHENOL (cont'd)

Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600

PHENOL RED (Phenol-sulfonphthalein)

$C_{19}H_{14}O_5S$. M.W. 354.4. Red crystalline powder. Uses: pH indicator - pH range 6.8 (yellow) to 8.4 (red).

†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa	Allegheny 4-8832

PHENOLPHTHALEIN (Dioxytriphenylphthalide, Paraphthalein, Dihydroxyphthalophenone, Dioxytriphenylcarbinol, Carboxylic Acid Anhydride, Phenolax)

$C_{20}H_{14}O_4$. White or yellowish-white odorless powd. Sp. gr. 1.2765 (32°C.). M.P. 260-261°C. Sol. alcohol, ether, alkalies. Uses—mfr. dyestuffs; laboratory reagent; in medicine. Grades—U.S.P.; pure reagent; tech.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

PHENOLPHTHALEIN, U.S.P.

Supplied as a white powder; m.p. 259.0° C. min.; solubility in alcohol (1:15), complete; acidity (cc's N/1000 NaOH/2 gm. sample), 3.0 cc. max.; ash 0.05% max.; arsenic 0.001% max.; conforms to U.S.P. test for fluorane and heavy metals; trace max. retained on 100 mesh; 15.0% max. on 325 mesh.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
1700 South Second Street
St. Louis 4, Mo.

MONSANTO
CHEMICALS—PLASTICS

SERVING INDUSTRY . . . WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

PHENOTHIAZINE (Thiodiphenylamine)

$C_{12}H_9NS$. M.W. 199.26. Yellow leaflets, or crystals. M.P. 180°C. Sublimes at 371°C. Insol. in water. Sol. in benzene; slightly sol. in alcohol and ether.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230

PHENOTHIAZINE (cont'd)

†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

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REG. U. S. PAT. OFF.

THE FULL LINE FINE CHEMICAL HOUSE

PHENOTHIAZINE
POTASSIUM GUAIACOL SULFONATE
RESORCIN
RUTIN
SACCHARIN
SALICYLATES
SODIUM BENZOATE
STRYCHNINE AND SALTS
SULFANILAMIDE
SULFATHIAZOLE
TERPIN HYDRATE
TESTOSTERONE
TESTOSTERONE PROPIONATE
THEOBROMINE AND SALTS
THEOPHYLLINE

THE NEW YORK QUININE & CHEMICAL WORKS, INC.
General Offices: 99-117 N. Eleventh St. • Brooklyn 11, N. Y.
Chicago Plant: 729 W. Division St. • Chicago 10, Ill.

PHENYL ACETALDEHYDE

†Aromatic Prods Inc, 15 E 30 St, N Y	Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

PHENYL ACETALDEHYDE DIMETHYL ACETAL

†Aromatic Prods Inc, 15 E 30 St, N Y	Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

PHENYLACETAMIDE (a-Toluamide)

C_6H_5-CH_2-$CONH_2$. M.W. 135.16. White crystalline powder. M.P. 158.5°C. Slightly sol. water; very sol. alcohol. Uses: precursor for penicillin.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O	Elmhurst 1300
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Bodman, F L, Inc, Phila, Pa	†Trubek Labs, Inc, E Rutherford, N J

PHENYL ACETATE (Acetylphenol)

$CH_3COOC_6H_5$. M.W. 136. Clear, colorless liq. with a rather pleasant odor. Sp. gr. 1.08 at 15/15°C. Weight per gal., 9.0 lbs. at 15°C. B.P. 196°C. Miscible with most organic solvents; practically insol. in water. Uses—as a solvent; in organic syntheses.

†Dow Chem Co, Midland, Mich — Midland 500
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600

PHENYL ACETONE

†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200
†Trubek Labs, Inc, E Rutherford, N J

PHENYL ACETYLENE

†Farchan Research Labs, 609 E 127 St, Cleveland, O — Glenville 1-8749

PHENYLALANINE

$C_6H_5CH_2CH(NH_2)COOH$. M.W. 165.2. Natural isomer; colorless leaflets. Uses: biochemical investigations, microbiological tests.

†Dow Chem Co, Midland, Mich — Midland 500
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

2-PHENYLCYCLOHEXANOL

†Dow Chem Co, Midland, Mich — Midland 500

PHENYL DIETHANOLAMINE

$C_6H_5N(CH_2CH_2OH)_2$. M.W. 181.22. White solid, melting at 53-56° C. Very slightly sol. in water. Uses—intermediate in mfr. azo dyestuffs and other industrial organic chemicals.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Dow Chem Co, Midland, Mich — Midland 500
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

PHENYL ETHANOLAMINE

$C_6H_5NH(CH_2CH_2OH)$. M.W. 137.18. Liquid, of boiling range 280-290° C. Slightly sol. in water. Sp. gr. 1.094-1.099 at 20/20° C. Wt. per gal., 9.1 lbs. at 20° C. Uses—intermediate in mfr. azo dyestuffs and other industrial organic chemicals.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

PHENYL ETHYL ACETATE

$C_6H_5CH_2COOC_2H_5$. M.W. 164.20. Colorless liquid, peach odor. Sp. gr. 1.081. B.P. 226°C. Sol. alcohol, ether. Insol. water. Uses—perfumery. Shipping regulations—none.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700

PHENYL ETHYLAMINE

†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Trubek Labs, Inc, E Rutherford, N J

PHENYL ETHYL FORMATE

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

PHENYL ETHYL PROPIONATE

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
†Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
†Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

PHENYL ETHYLENE GLYCOL

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120

PHENYL GLYCINE, POTASSIUM SALT (Potassium Aminoacetate)

$C_6H_5NHCH_2COOK$. M.W. 189.2. Grayish-white, odorless powder. M.P. 300°C. Sol. in water; slightly sol. in alcohol; insol. in carbon tetrachloride. Uses—intermediate in organic synthesis; mfr. of pharmaceuticals.

PHENYL GLYCINE, POTASSIUM SALT (cont'd)

†Dow Chem Co, Midland, Mich — Midland 500

PHENYLHYDRAZINE (Hydrazobenzene)

$C_6H_5NH.NH_2$. M.W. 108.08. Yellowish to reddish brown liq. Sp. gr. 1.091 (15°C.). M.P. 19.6°C. B.P. 243.5°C. Sol. alcohol, ether; very slightly sol. water. Uses—mfr. dyestuffs, intermediates, pharmaceutical chemicals; reducing agent; metallising mirrors; laboratory reagent. Grades—commercial; C.P.; reagent.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg 3-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

PHENYLHYDRAZINE HYDROCHLORIDE

$C_6H_5N_2.HCl$. Colorless, crystalline scales. M.P. 243°C. Sublimes on heating. Sol. water, alcohol, ether. Uses—mfr. dyestuffs, intermediates, organic chemicals, pharmaceuticals; in sugar analysis. Dangerous to skin. Grades—tech.; C.P.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 3-2151
†Carwin Co, Stiles Lane, North Haven, Conn — New Haven 2-2161
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Eastern Chem Corp, Newark, N J

PHENYLHYDRAZINE ISOCYANATE

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

PHENYLHYDRAZINE LITHIUM

†Algo Chem Co, Detroit, Mich

PHENYLMERCURICS

Medical & Technical Grades

The
HAMILTON LABORATORIES INC.
ASHEVILLE, N. C.

PHENYL MERCURIC ACETATE

$C_6H_5HgOCOCH_3$. M.W. 336.67. White powder. Sol. water. Uses: powerful germicide, fungicide.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010



MERCURY
and
MERCURY
COMPOUNDS

METALSALTS CORP.
200 WAGARAW RD., HAWTHORNE, N. J.
HAwthorne 7-6000 PEnn 6-2626

PHENYL MERCURIC ACETATE (cont'd)

Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Hamilton Labs Inc, 120 Patton Av, Ashville, N C — Ashville 2-3621
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Stieh, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265

PHENYL MERCURIC BENZOATE

$C_6H_5HgOCOC_6H_5$. M.W. 398.82. White powder. Uses: powerful germicide, fungicide.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Hamilton Labs Inc, 120 Patton Av, Ashville, N C — Ashville 2-3621
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959

PHENYL MERCURIC o-BENZOIC SULFIMIDE

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959

PHENYL MERCURIC BORATE

$C_6H_5HgBO_3H_2$ White crystals. Used as an intermediate in the manufacture of bacteriocides.

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Hamilton Labs Inc, 120 Patton Av, Ashville, N C — Ashville 2-3621
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959

PHENYL MERCURIC CHLORIDE

C_6H_5HgCl. White satiny crystals. M.W. 313.17, melting point 252. Intermediate used in the manufacture of bacteriocides.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Hamilton Labs Inc, 120 Patton Av, Ashville, N C — Ashville 2-3621
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Stieh, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265

PHENYL MERCURIC GLUCONATE

$C_6H_5HgOCO(CHOH)_4CH_2OH$. M.W. 472.78. White powder. Uses: germicide, fungicide.

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959

PHENYL MERCURIC HYDROXIDE

C_6H_5HgOH. M.W. 294.72. White powder. Sol. water. Uses: powerful germicide, fungicide.

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Hamilton Labs Inc, 120 Patton Av, Ashville, N C — Ashville 2-3621
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Stieh, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265

PHENYL MERCURIC NAPHTHENATE

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
†Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201

PHENYL MERCURIC PICRATE

$C_6H_5HgoC_6H_2(NO_2)_3$. White crystals. Use: in the manufacture of bacteriocides.

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959

PHENYL MERCURIC STEARATE

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959

PHENYL MERCURY NITRATE

$C_6H_5HgNO_3$. M.P. approx. 180°C. Uses—as a bactericide and fungicide. Apparently non-toxic to animals or animal tissue.

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
DeLamar-Mendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Hamilton Labs Inc, 120 Patton Av, Ashville, N C — Ashville 2-3621
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Stieh, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265

PHENYL MERCURY PHTHALATE

†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959

Manufacturers of

• High Purity • Uniform Quality

PHENYL METHYL PYRAZOLONE

For use in the manufacture of dyes and pharmaceuticals

RONJAY CHEMICAL CO., INC.

179 Lombardy St. Brooklyn 22, N. Y.

EVergreen 8-4725

PHENYL METHYL PYRAZOLONE (1-Phenyl-3-Methyl-5-Pyrazolone)

$C_{10}H_{10}N_2O$. M.W. 174.1. White powder, sol. alcohol, alkali, acids; insol. water. M.P. 127.0 to 128.0°C. Uses—as a dye intermediate; mfr. pharmaceuticals.

†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Dow Chem Co, Midland, Mich — Midland 500
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Ronjay Chem Co, Inc, 179 Lombardy St, Bklyn, N Y — Evergreen 8-4725
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400
†Red Star Chem Co, Inc, Long Is City, N Y
†Stanetal Corp, Linden, N J

PHENYL METHYL PYRAZOLONE

Intermediate for synthesis of dyes and drugs

•

SPECIAL CHEMICALS DIVISION

Winthrop-Stearns INC.

1450 BROADWAY, NEW YORK 18, N. Y.

PHENYL MORPHOLINE

$C_6H_5NCH_2CH_2OCH_2CH_2$. M.W. 163.11. M.P. 57°C. B.P. 267°C. White, crystalline solid. Uses: in mfg. of dyestuffs, pharmaceuticals, germicides, corrosion inhibitors, emulsifying agents, synthetic resin chemicals, and rubber.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

PHENYL b-NAPHTHYL AMINE

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Goodrich, B F, Chem Co, Cleveland, O

o-PHENYLPHENOL

o—$C_6H_5.C_6H_4OH$. M.W. 170.1. White or light buff to pink, free-flowing flakes with a mild characteristic odor. B.P. 284°C. Sol. in sodium hydroxide solutions and most organic solvents; insol. water. Uses—as a germicide, fungicide; in the rubber industry.

†Dow Chem Co, Midland, Mich — Midland 500

p-PHENYLPHENOL

p—$C_6H_5.C_6H_4OH$. M.W. 170. White solid. M.P. 165°C. B.P. 308°C. Sol. in sodium hydroxide solutions; most organic solvents; insol. water. M.P. above 165°C. Uses—as an intermediate in the mfr. of resins; in the rubber industry.

†Dow Chem Co, Midland, Mich — Midland 500

PHENYL SALICYLATE—see Salol

PHENYL SEMI CARBAZIDE

†Consolidated Midland Corp, Katonah, N Y — Katonah 1010

PHENYL URETHANE

†Red Star Chem Co, Inc, Long Is City, N Y

m-PHENYLENEDIAMINE

$C_6H_4(NH_2)_2$. Colorless needles. Sp. gr. 1.1389. M.P. 63°C. B.P. 287°C. Sol. alcohol, ether, water. Uses—mfr. azo and sulfur dyes, alkali blue; as laboratory reagent; developing agent in printing and dyeing textiles. Grades—tech. 94%.

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

PHENYLENEDIAMINE

o-PHENYLENEDIAMINE PHOTO
o-PHENYLENEDIAMINE PURIFIED
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CONSOLIDATED MIDLAND CORPORATION
KATONAH, NEW YORK, U. S. A.

o-PHENYLENE DIAMINE

$NH_2.C_6H_4.NH_2$ crystals. M. W. 108.14. Melting Point 62.8°C. Very sol. in water and alcohol. Sol. in ether. Uses—inhibitors, manufacture of heterocyclics.

†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

o-Phenylenediamine

Photographic developing agent, organic intermediate.

Phloroglucinol

Developer acetate black dyes, diazo process black line papers, resin intermediate.

Manufacturers of high purity, organic chemicals in commercial quantities for use as intermediates, process raw materials and formula ingredients for the chemical, pharmaceutical, dyestuff and photographic reproduction industries.

E D W A L

EDWAL Quality Fine Chemicals
Edwal Laboratories • Ringwood, Illinois

p-PHENYLENEDIAMINE

$(C_6H_4)(NH_2)_2$. Colorless, solid crystalline. M.P. 140°C. B.P. 267°C. Sol. alcohol, ether, water. Uses—mfr. azo dyes, aniline black; dyeing hair and furs; dyeing and printing black and brown shades on textiles; rubber vulcanization accelerator; in chemical analysis. Grades—tech.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

Feinberg, B G, N Y — Sonnenschein, E, & Co, Inc, N Y
Manahan Chem Co, Inc, Bklyn, N Y

PHLOROGLUCINOL (Trioxyphenol: Phloroglucine, Benzenetriol Dihydroxyphenol)

$C_6H_3(OH)_3.2H_2O$. White to yellowish crystals. M.P. 217-219°C., if rapidly heated; 200° to 209°C. if slowly heated. Sol. in alcohol and ether; slightly soluble in water. Uses—analytical chemistry (reagent for pentoses and with vanillin for determining presence of free hydrochloric acid); in medicine; decalcifying agent for bones. Grades—tech.

PHLOROGLUCINOL (cont'd)

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

PHOSGENE (Carbonyl Chloride, Chloroformyl Chloride)

$COCl_2$. M.W. 98.9. Colorless, volatile liquid. Extremely poisonous. Sp. gr. 1.392. M.P. —75°C. B.P. 8.3°C. Container—steel cylinders. Uses—chlorinating agent, dye manufacture, lethal gas for warfare, bleaching, glass manufacture.

★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
Elberta Chem Co, Inc, Ramseyville, N Y

PHOSGENE

Other Chlorinating Agents:

Sulfur Chlorides, Mono and Di
Sulfuryl Chloride • Thionyl Chloride

HOOKER ELECTROCHEMICAL CO.
4715 Buffalo Ave., Niagara Falls, New York
New York, N.Y. • Tacoma, Wash. • Wilmington, Calif.

WRITE FOR GENERAL PRODUCTS LIST

HOOKER CHEMICALS

For listings of other products see Catalog Section ad. (D)

PHOSPHATE (EDIBLE BONE)

†Consolidated Chem Industries, Inc, 640 Mellie Esperen Bldg, Houston, Texas — CA2371
Jett, Joseph C, Norfolk, Va

PHOSPHATE ROCK

Natural Rock; a complex compound containing variable quantities of calcium phosphate. Uses—mfr. superphosphate, phosphate salts, phosphoric acid; fertilizer. Grades—as to percentage of actual calcium phosphate (68-77%); pebble; rock; ground.

†Amer Cyanamid Co, Agric Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

†Baugh Chem Co, Baltimore, Md — Intnl Ore & Fertilizer Corp, N Y
†Coronet Phosphate Co, N Y — Iowa Soda Prods Co, Council Bluffs, Iowa
Huber, L W, Co, N Y — McIver, Alex M, & Son, Charleston, S C

PHOSPHORUS

P. a. Light yellow solid crystalline, disagreeable odor. b. Reddish-brown, amorp. powd., odorless. Sp. gr. a. 1.83. b. 2.296. M.P. a. 44.4°C. b. 725°C. B.P. a. 287°C. b. 350°C. a. Sol. carbon disulfide, benzene, chloroform, oils; slightly sol. water, alcohol, ether. b. Sol. absolute alcohol. Uses—mfr. organic chemicals, intermediates, rodent poisons, matches, phosphorus pentachloride; reagent in making phosphides; alloying copper; in medicine. Grades—white or yellow and red amorp. tech.; U.S.P.; sticks.

†Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970

Red Amorphous Phosphorus

• Phosphorus Sesquisulphide Powder

Manufactured by
Electric Reduction Co., of Canada, Ltd.
Exclusive Export Agents

DUFF CHEMICAL CO., Inc.

342 Madison Avenue — New York 17, N. Y.
Telephone: MU 7-6502 — Cable Address: CHEMDUF

PHOSPHORUS

Monsanto process of manufacture assures elemental phosphorus of over 99.9% purity. From this are produced these high-quality Monsanto products:
Phosphorus Pentoxide (also known as phosphoric anhydride, phosphoric oxide, solid P_2O_5) • Phosphoric Acid (orthophosphoric acid) • Alkyl Acid and Alkyl Alkali Phosphates • Sodium Phosphates • Ammonium Phosphates • Calcium Phosphates • Potassium Phosphates.

MONSANTO CHEMICAL COMPANY
Phosphate Division
St. Louis 4, Mo.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY... WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

PHOSPHORUS (cont'd)

Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†Oldbury Electro Chem Co, 19 Rector St, N Y	Digby 4-1668
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Gen Phosphorus Co, Cincinnati, O	Talve Trading Co, N Y

PHOSPHORUS OXYCHLORIDE TRICHLORIDE

—•—

JOSEPH TURNER & CO.
RIDGEFIELD, NEW JERSEY

83 Exchange Street
Providence, R. I.

435 N. Michigan Ave.
Chicago 11, Illinois

Serving Industry since 1861

PHOSPHORUS OXYCHLORIDE (Phosphoryl Chloride)

$POCl_3$. Clear colorless fuming liq., with pungent odor. Sp. gr. 1.686 (15°C.). M.P. 1.25°C. B.P. 110°C. Solidifies —10°C. Decomposed by water and alcohol. Uses—chlorinating agent and catalyst in making organic chemicals, intermediates, dyestuffs, etc. Grades—tech.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502

Victor

PHOSPHORIC ANHYDRIDE
PHOSPHORUS OXYCHLORIDE
PHOSPHORUS TRICHLORIDE

VICTOR CHEMICAL WORKS
141 W. Jackson Blvd., Chicago 4, Illinois

OLDBURY ELECTRO-CHEMICAL COMPANY

PHOSPHORUS OXYCHLORIDE
PHOSPHORUS PENTACHLORIDE
PHOSPHORIC ANHYDRIDE
PHOSPHORUS PENTASULFIDE
PHOSPHORUS TRICHLORIDE
PHOSPHORUS (Yellow or White)
PHOSPHORIC ACID 85% NF VIII

•

HYPOPHOSPHITES
ZINC PHOSPHIDE
PHOSPHOROUS ACID
OXALIC ACID *Powdered or Crystal*
POTASSIUM PERCHLORATE
SODIUM CHLORATE
POTASSIUM CHLORATE

PLANT AND MAIN OFFICE
Niagara Falls, N. Y.

NEW YORK OFFICE
19 Rector St. New York 6, N. Y.

PHOSPHORUS OXYCHLORIDE (cont'd)

Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†Ohio-Apex Inc, Nitro, W Va	Nitro 152
†Oldbury Electro Chem Co, 19 Rector St, N Y	Digby 4-1668
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541

PHOSPHORUS OXYCHLORIDE

(also known as phosphoryl chloride)

Specifications: Water-white to yellow liquid; crystallising point 0.8° C. min.; assay 99.0% min. Distillation range: first drop, 106.0° C. min.; 95% (1-96 ml.), 1.5° C. max.; dry point, 108.5° C. max. PCl₅, 0.20% max.; iron, 0.0005% max.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY... WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

PHOSPHORUS PENTACHLORIDE (Phosphoric Chloride)

PCl_5. Fuming white cryst., decomposing in air, irritating odor. Sp. gr. 3.60. M.P. 148°C. (under pressure). B.P. 160-165°C. Sol. carbon disulfide. Decomposed by water. Uses—chlorinating agent in making intermediates and organic chemicals; laboratory reagent; chemical catalyst. Grades—tech.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Oldbury Electro Chem Co, 19 Rector St, N Y	Digby 4-1668
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541

PHOSPHORUS PENTASULFIDE (Phosphoric Sulfide, Thiophosphoric Anhydride, Phosphorus Persulfide)

P_2S_5. Light yellow crystalline masses. Sp. gr. 2.03. M.P. 274°C. B.P. 518-520°C. Sol. alkalies, carbon disulfide. Decomposed by water. Uses—in organic synthesis. Grades—tech.

†Amer Agricultural Chem Co, 50 Church St, N Y	Barclay 7-1400
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Oldbury Electro Chem Co, 19 Rector St, N Y	Digby 4-1668
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267

†Gen Phosphorus Co, Cincinnati, O

PHOSPHORUS PENTOXIDE (Phosphoric Acid Anhydrous)

P_2O_5. M.W. 142.04. White, amorp., very deliq. powd. Sp. gr. 2.387. M.P. 800°C. Sublimes at red heat. Sol. water, concentrated sulfuric acid. Uses—mfr. phosphoric acids; dehydrating agent in making intermediates, dyestuffs, etc., refining sugar, and in chemical processes; laboratory reagent; in medicine. Grades—tech.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†Oldbury Electro Chem Co, 19 Rector St, N Y	Digby 4-1668
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541

RED PHOSPHOROUS
PHOSPHOROUS SESQUISULPHIDE
POTASH CHLORATE
ANTIMONY SULPHIDE
ZINC OXIDE
POTASSIUM NITRATE
BARIUM NITRATE
STRONTIUM NITRATE

Conray PRODUCTS COMPANY
510 6 TH AVE., NEW YORK 11, N. Y.
OREGON 5-2505

PHOSPHORUS SESQUISULFIDE (Tetraphosphorus Trisulfide)

P_4S_3. Yellow, crystalline inflam. mass. Sp. gr. 2.00. M.P. 172°C. B.P. 407.8°C. Sol. carbon disulfide. Uses—mfr. organic compounds, matches. See Phosphorus. Grades—tech.

†Amer Agricultural Chem Co, 50 Church St, N Y	Barclay 7-1400
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
†Oldbury Electro Chem Co, 19 Rector St, N Y	Digby 4-1668
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267

†Gen Phosphorus Co, Cincinnati, O Talre Trading Cr, N Y

Phosphorus Sesquisulphide Powder

• Red Amorphous Phosphorus

Manufactured by
Electric Reduction Co., of Canada, Ltd.
Exclusive Export Agents

DUFF CHEMICAL CO., Inc.
342 Madison Avenue New York 17, N. Y.
Telephone: MU 7-6502 Cable Address: CHEMDUF

PHOSPHORUS TRIBROMIDE

PBr_3. Fuming, colorless liquid. Penetrating odor. Sp. gr., 2.925 at 0°C. B.P., 175°C. M.P. 40°C. Uses—analytical (test for sugar and oxygen). Shipping regulations, white label.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1250
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Dow Chem Co, Midland, Mich	Midland 500

PHOSPHORUS TRICHLORIDE

Distilling Range
First drop 74.5° C. min.
Dry point 79.0° C. max.
Total range 3.0° C. max.

Specific Gravity 15.5/15.5° C. 1.582-1.587.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY... WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

PHOSPHORUS TRIBROMIDE (cont'd)

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
†Michigan Chem Corp, St Louis, Michigan	41

PHOSPHORUS TRICHLORIDE (Phosphorus Chloride)

PCl_3. M.W. 137.39. Clear colorless, fuming liq. Sp. gr. 1.616 (0°C.). M.P. —111.8°C. B.P. 73.5°C. Miscible ether, benzene, carbon disulfide, carbon tetrachloride. Decomposed by water or moist air. Uses—mfr. phosphorus pentachloride, phosphorus oxychloride, saccharin; for producing iridescent metallic deposits; chlorinating agent in making intermediates, organic chemicals, synth. dyes, drugs, perfumes. Grades—tech.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†Ohio-Apex Inc, Nitro, W Va	Nitro 152
†Oldbury Electro Chem Co, 19 Rector St, N Y	Digby 4-1668
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541

PHTHALIC ANHYDRIDE (Phthalandione)

$C_8H_4O_3$. M.W. 148.03. White, translucent crystalline needles, characteristic odor. Sp. gr. 1.527. M.P. 130.8°C. B.P. 284.5°C. Sol.

DIBASIC ACIDS AND ANHYDRIDES

Phthalic Anhydride
Fumaric Acid
Maleic Anhydride

PLASTICIZERS

Di-2-Ethyl-Hexyl Phthalate
Ethyl-o-Benzoylbenzoate

Technical Data Sheets available

AMERICAN Cyanamid COMPANY
30 Rockefeller Plaza, New York 20, N. Y.

Phthalic Anhydride

Superior quality and dependability are assured by modern equipment and manufacturing methods.

THE BARRETT DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR ST., NEW YORK 6, N.Y.

Barrett

One of America's Great Basic Businesses

Reg. U. S. Pat. Off.

PHTHALIC ANHYDRIDE (cont'd)

alcohol; slightly sol. ether, hot water. Uses—mfr. various dyestuffs, intermediates, phenolphthalein, indigo, phthaleins, fluorescent and anthraquinone dyestuffs, diethylphthalate, methylanthraquinone, anthranol, anthranilic acid, phloxines, erythosins, rhodamines, violomines, perfume esters, phthalated pharmaceuticals; synth. perfume base. Grades—tech.; pure (99.9%).

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Atlas Import Co, 510 N Dearborn St, Chicago, Ill	Superior 7-8646
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884

PHTHALIC ANHYDRIDE

Specifications: Crystallizing pt. approx. 131° C. min. Solubility in benzene: 1.20 complete. Assay: essentially 100%.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.

MONSANTO
CHEMICALS—PLASTICS

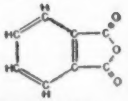
SERVING INDUSTRY...WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa	Atlantic 1-6240
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000

KOPPERS
PHTHALIC ANHYDRIDE
Purity: 99.7% Minimum

USES: In manufacture of alkyd resins, ester-type plasticizers, dyestuff intermediates, food preservatives, medicinals, pharmaceuticals, insect repellents and perfume fixatives.



KOPPERS COMPANY, INC.
Chemical Division, Pittsburgh 19, Pa.

PHTHALIC ANHYDRIDE (cont'd)

Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland	
†Oronite Chem Co, 38 Sansome St, San Fran, Calif	Extrook 2-0923
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich	Jordan 4-6500
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Dereume, Raymond, Punxsutawney, Pa	Hardy, M W, & Co, Inc, N Y

PHTHALIMIDE

$C_6H_4:(CO)_2:NH$. M.W. 147.05. White, plate cryst., over 98% pure. M.P. 238°C. Uses—mfr. anthranilic acid, certain colors.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Dow Chem Co, Midland, Mich	Midland 500
†Jorala Prods Co, 894 Whittier St, Bronx, N Y	Dayton 3-1137

PHTHALYL CHLORIDE (o-Phthalyl Dichloride,1,2-Benzene Dicarbonyl Chloride)

$C_6H_4(COCl)_2$. M.W. 203.03. Colorless oily liquid. Uses: mfg. of plasticizers and resins; in organic syntheses.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000

PHYTOSTEROL

Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
†Blum, Paul, Co, Buffalo, N Y	

U·S·S Picolines

Two Degree Alpha Picolines
Mixed Picolines—95% within 8°C.
Available in tank cars and 55-gallon drums

COAL CHEMICAL SALES DIVISION
United States Steel Corporation Subsidiaries
71 Broadway, New York 6, N. Y.

USS
COAL CHEMICALS
UNITED STATES STEEL

alpha-PICOLINE

α—$CH_3C_5H_4N$. M. W. 93. B. P. 129°C. Sol. in water. Light colored liquid, odor resembling pyridine. Uses—in dyestuff synthesis, special solvent, resinous condensation products.

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600

beta-PICOLINE

C_6H_7N. M.W. 93.06. B.P. 143.5°C. Liquid. Sol. water, alcohols. Miscible with alcohol, ethyl ether. Uses: solvent in synthesis of pharmaceuticals, resins, dyestuffs, rubber accelerators, insecticides; in prep. of nicotinic acid and nicotinic acid amide.

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
†Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461

γ-PICOLINE

C_6H_7N. M.W. 93.06. B.P. 143.1°C. Liquid. Sol. water, alcohols. Miscible with alcohol, ethyl ether. Uses: solvent in synthesis of pharmaceuticals, resins, dyestuffs, rubber accelerators, insecticides.

†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461

PIGMENTS, BLACK CARBON

Included in this group are: the various grades of carbon black, thermatomic black, lamp black, bone black, also blacks which fall between the soft blacks and carbon blacks and which are produced by varying the method of manufacture of blacks from natural gas. Black pigments find wide application in rubber, inks, paints, lacquers, enamels, linoleum, paper, etc.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Binney & Smith Co, 41 E 42 St, N Y	Murray Hill 2-1960
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass	Liberty 2-1870
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y	Murray Hill 3-8350
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
†Mineral Pigments Corp, Muirkirk, Md	Laurel 454
Prince Mfg Co, Lehigh St, Bowmanstown, Pa	Palmerton 3172
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†United Carbon Co, Inc, P O Box 1913, Charleston, W Va	Capitol 2-1161

COLORS

- Red, Yellow, Brown & Black Precipitated Iron Oxides
- Siennas, Umbers, Natural Red, Brown & Black Oxides
- Lamp, Carbon, Bone & Mineral Blacks, Aqueous Black Dispersions, Pulp Colors
- Zinc, Calcium, Barium, Strontium & Lead Chromates
- Tuscan Reds
- Phthalocyanine Colors

SPECIAL BLENDS FOR ALL INDUSTRIES

MINERAL PIGMENTS CORPORATION

Manufacturers of Synthetic Pigments

Muirkirk, Maryland

PIGMENTS, BLACK CARBON (cont'd)

Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
†Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Carroll, R E, Inc, Trenton, N J	†Gen Metallic Oxides Co, Jersey City, N J
Commercial Chems, Inc, Buffalo, N Y	†Johnson, Charles Eneu, & Co, Phila, Pa

PIGMENTS, BLACK MINERAL

Pigments from shale found in Nature (containing roughly 70% silica and 30% carbonaceous matter) or from coal or slate.

Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
Doggett, Stanley, Inc, 75 Varick St, N Y	Walker 5-1051
†Mineral Pigments Corp, Muirkirk, Md	Laurel 454
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa	Palmerton 3172
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
†Keystone Filler & Mfg Co, Muncy, Pa	†Smith, J Lee, & Co, Inc, N Y

FRED L. BROOKE CO.

3340 N. Halsted St.

Chicago 13, Ill.

DRY COLORS

GRaceland 7-3030

PIGMENTS, BLUE

Two principal members of this group are Prussian Blue (often called Chinese Blue or Iron Blue) and Ultramarine Blue. Finished products are sold in the dry form, or ground in oil or in japan to form a paste. See A.S.T.M. Standard Specifications D261-28; D262-28.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y	Gibraltar 7-8600
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
†Brooklyn Color Wks, Inc, Morgan & Norman Ave, Bklyn, N Y	Evergreen 8-8440
Doggett, Stanley, Inc, 75 Varick St, N Y	Walker 5-1051
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del	Wilmington 4-5121
†Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y	Murray Hill 3-8350
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J	Lambert 3-2900
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O	Elmhurst 1300
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky	Shawnee 1206
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y	Barclay 7-9760
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md	Laurel 454
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich	Jordan 4-6500
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J	Bigelow 8-2757
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
†Federal Color Labs, Inc, Cincinnati, O	†Marx, Max Color & Chem Co, Irvington, N J
†Pigment Color Div, Imperial Paper & Color Corp, Glens Falls, N Y	Palmer Supplies Co, Cleveland, O
†Magruder Color Co, Inc, Staten Is, N Y	

PIGMENTS, BROWN

Most commonly employed brown pigments are: 1. Raw Sienna; 2. Raw and burnt umber; 3. Van Dyke brown.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Binney & Smith Co, 41 E 42 St, N Y	Murray Hill 2-2960
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
†Brooklyn Color Wks, Inc, Morgan & Norman Ave, Bklyn, N Y	Evergreen 8-8440
Doggett, Stanley, Inc, 75 Varick St, N Y	Walker 5-1051
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del	Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y	Murray Hill 3-8350
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J	Lambert 3-2900
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O	Elmhurst 1300
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y	Barclay 7-9760
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md	Laurel 454
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa	Palmerton 3172
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
†Marx, Max Color & Chem Co, Irvington, N J	Pylam Prods Co, Inc, N Y
Osborn, C J, Co, N Y	†Smith, J Lee, & Co, Inc, N Y
Palmer Supplies Co, Cleveland, O	†Williams, C K, & Co, E St Louis, Ill

PIGMENTS afc SOLVENTS

AMERICAN AND FRENCH PROCESS

ZINC OXIDE

FOR ALL PHARMACEUTICAL, COSMETIC AND INDUSTRIAL PURPOSES

ZINC CARBONATE • ZINC SULFATE

ZINC DUST

NICKEL FORMATE • NICKEL SULFATE

INDUSTRIAL CHEMICALS

american FIRSTOLINE CORPORATION

420 LEXINGTON AVE., N. Y. 17, N. Y. MU-3-3203

PIGMENTS, CHROMIUM

More common members of this group are: pure chrome green (a precipitated mixture of lead chromate and iron ferro and ferricyanide blue) reduced chrome green, also known as grinders' green (a mixture of lead chromate and iron ferro and ferricyanide blue precipitated on a base of barium sulfate or insoluble siliceous material or any mixture thereof); chrome oxide green (a practically pure sesqui-oxide of chromium, Cr_2O_3); chrome yellow (usually mixtures of normal and basic lead chromates). Finished products are sold in the dry form or ground in oil, or in japan to form a paste. See A.S.T.M. Standard Specifications D212-27; D211-27; D263-28; D211-27. See also Pigments, Green; Pigments, Yellow. See Lead Chromate, Chromium Oxide, Chrome Green.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
Doggett, Stanley, Inc, 75 Varick St, N Y	Walker 5-1051
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del	Wilmington 4-5121
†Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O	Elmhurst 1300
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky	Shawnee 1206
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md	Laurel 454
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich	Jordan 4-6500
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
†Pigment Color Div, Imperial Paper & Color Corp, Glens Falls, N Y	†Western Dry Color Co, Chicago, Ill
	†Williams, C K, & Co, E St Louis, Ill

PIGMENTS, EXTENDED TITANIUM

Special titanium pigments to which has been added an extender appropriate for the particular uses for which the pigment is designed. See Titanium Dioxide.

Du Bear Inc, 636 11 Av, N Y	Plaza 7-0960
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del	Wilmington 4-5121
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J	Lambert 3-2900
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

PIGMENTS, EXTENDER

Extender pigments having a wide range of chemical and physical properties are commercially available, such as the high- and low-oil-absorption precipitated calcium carbonates, diatomaceous earth, bleached silicas, and transparent water-ground mica. These, properly formulated in paints, varnishes, and lacquers produce special effects. Diatomaceous earth can be used to flat a paint or lacquer without excess pigmentation. Low-oil-absorption calcium carbonate is added to white enamels to reduce drag and improve leveling. High-oil-absorption precipitated calcium carbonates improve the dry hiding power of inside whites, and also aid in producing a dead flat effect.

PIGMENTS, EXTENDER (cont'd)

Transparent, white, water-ground mica, if added to a lacquer film, adds mechanical strength without affecting transparency. Mica can be used in small amounts to overcome checking and cracking of outside paints. Other extender pigments include talc, barytes, clay, slate, limestone, chalk, whiting, gypsum, Terra alba.

†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
English China Clays Sales Corp, 551 5 Av, N Y — Murray Hill 2-2190
†English Mica Co, Sterling Bldg, Stamford, Conn — Stamford 4-9531
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Commercial Minerals Co, San Fran, Calif — Palmer Supplies Co, Cleveland, O
†Edgar Bros Co, Metuchen, N J — †Williams, C K, & Co, E St Louis, Ill

PIGMENTS, GREEN

Most commonly employed green pigments are: 1. Chrome Green, C. P., a combination of Prussian blue and chrome yellow, different proportions of which give a variety of tints; 2. Brunswick Green (often called Grinders), a reduced chrome green precipitated on barytes with less opacity and staining power, but greater brilliancy than chrome green, C. P.; 3. Chromium Oxide, a yellowish or sage green of good opacity, unaffected by light, heat, acids or alkalies, but somewhat dull in color; 4. Guignet's Green, permanent, stable and inert, very brilliant, but more expensive.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
†Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Magruder Color Co, Inc, Staten Is, N Y — Palmer Supplies Co, Cleveland, O
†Marx, Max Color & Chem Co, Irvington, N J — Pylam Prods Co, Inc, N Y
†Williams, C K, & Co, E St Louis, Ill

PIGMENTS, LEAD

Principal members of this group are: red lead, basic carbonate white lead (formula $2PbCO_3.Pb(OH)_2$), basic sulfate white lead, leaded zinc oxides, litharge or yellow lead oxide all sold in dry, paste in oil, or semi-paste forms.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Associated Lead & Zinc Co, Seattle, Wash — †Euston Lead Co, Scranton, Pa
†Eagle Picher Co, Cincinnati, O — Howell, Edwin B, Detroit, Mich

PIGMENTS, LUMINOUS

The principal substances that absorb rays of light and emit them in the dark are the sulfides of the alkaline earths and sulfides of zinc. The former react only feebly, zinc sulfide gives fairly intense illumination. Luminous pigments are used chiefly in the formulation of luminous paints, for stage purposes, in printing, etc.

†Vogel Luminescence Corp, San Fran, Calif

PIGMENTS, MICA

In the paint pigment field wet-ground mica supplements as well as replaces asbestine or fibrous talc and is preferably used to the extent of 10% of the pigment. Specifications generally call for 90% ground through 325 mesh and smoothly rounded edges. If the edges are ragged, as are those of ordinary dry-ground mica, the particles will not lie on one another like fish scales or orient themselves in the plane parallel to the paint film surface. Bulky or granular particles likewise are not desired for the reason that equidimensional particles do not tend to force the paint film. Mica is claimed to be superior to fibrous materials, inasmuch as it not only tends to hold together the film as does the hair or fiber in plaster, but it also binds the film (due to the overlapping of plates like fish scales), increases its wearing qualities, and acts as a lubricant. The fact that mica flakes, although transparent to ordinary light, are quite opaque to ultraviolet light may contribute further to desirable properties of this new pigment extender. Another advantage is the high bulking quality (sp. gr., 3.35; wgt. per gal., 27.75; bulking, 0.0361 gal. per lb.).

†English Mica Co, Sterling Bldg, Stamford, Conn — Stamford 4-9531
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172

PIGMENTS, MICA (cont'd)

Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
†Concord Mica Corp, Penacook, N H — Palmer Supplies Co, Cleveland, O

PIGMENTS, FLUORESCENT

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†New Jersey Zinc Sales Co, N Y — †Vogel Luminescence Corp, San Fran, Calif

PIGMENTS, FLATTING

†Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
†English Mica Co, Sterling Bldg, Stamford, Conn — Stamford 4-9531
†Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†RBH Dispersions, Div of Interchem Corp, 1-5 Factory Lane, Bound Brook, N J — Bound Brook 9-0700
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

FILO COLOR & CHEMICAL CORP.
202 E. 44 ST. • NEW YORK 17, N. Y.
PIGMENT COLORS
A Complete Range of Chemical Pigments
Both Organic And Inorganic
FILO
CABLE: 'FILOCOLOR'

PIGMENTS, PAINT

Coloring materials, insoluble in the paint vehicle, but held in suspension, including lead, zinc, cadmium, titanium, mercury and chromium pigments; ochres, siennas, umbers, iron oxides, bone black, lamp black, carton black, etc.: important factors considered in paint pigments are: particle size, bleeding, moisture, wetting and dispersing properties, neutrality, covering powers, light fastness, resistance to acids, alkalies, oil etc., oil absorption, specific gravity, and tinting strength.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
†Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970

PIGMENTS
FLUSHED AND DRY
for the
Printing Ink, Paint, Lacquer, Vinyl, Carbon Paper, Rubber, and Leather Industries
The Hilton-Davis Chemical Company Division
2235 Langdon Farm Road
Cincinnati, Ohio

†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†English Mica Co, Sterling Bldg, Stamford, Conn — Stamford 4-9531
†Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206

PIGMENT COLORS

A Full and Complete Line of
Organic and Inorganic Chemical Colors

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DETROIT, MICHIGAN

Brooklyn, N. Y. — Elizabeth, N. J.

Tuscaloosa, Ala. — Seattle, Wash.

So. San Francisco, Calif.

PIGMENTS, PAINT (cont'd)

Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Aluminum Flake Co, Barberton, O
†Eagle Picher Co, Cincinnati, O
†Edgar Bros Co, Metuchen, N J
†Federal Color Labs, Inc, Cincinnati, O
McNulty, Joseph A, N Y
†Magruder Color Co, Inc, Staten Is, N Y
†Marx, Max Color & Chem Co, Irvington, N J
†Murray-Williams Color & Chem Co, Maplewood, N J
Osborn, C J, Co, N Y
Osgood, D H, Co, Detroit, Mich
Palmer Supplies Co, Cleveland, O
†Smith, J Lee, & Co, Inc, N Y
Stark, J W, Co, Detroit, Mich
†Western Dry Color Co, Chicago, Ill
†Williams, C K, & Co, E St Louis, Ill

PIGMENTS, PAPER

Various products used in the manufacture of paper to improve the opacity, whiteness, and brightness. Among the more common pigments employed are: titanium dioxide and composites of the dioxide with blanc fixe or calcium sulfate; the three main grades of zinc sulfate pigments, namely: 1. Commercial zinc sulfate; 2. Zinc sulfide pigment containing approximately 50% blanc fixe; 3. Zinc sulfide pigment containing approximately 70% blanc fixe. Paper pigments differ from paper fillers in that the latter usually have relatively large particle size, low whitening or opacifying power, and are retained by mechanical filtration rather than by adsorption. Many of the paper pigments are added in the beater stage, others like zinc oxide in the coating operation.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
†Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Federal Color Labs, Inc, Cincinnati, O
Palmer Supplies Co, Cleveland, O
†Smith, J Lee, & Co, Inc, N Y
†Williams, C K, & Co, E St Louis, Ill

PIGMENTS, PHOSPHORESCENT

†New Jersey Zinc Sales Co, N Y — Vogel Luminescence Corp,

PIGMENTS, RED

Most commonly used red pigments are: 1. Red oxide, the shades vary from brown (Spanish) to deep red (Persian Gulf), more brilliant shades are produced chemically with a lighter ferric content; 2. Burnt ochre; 3. Burnt Sienna; 4. Red Lead (seldom used except as a priming coat); 5. Basic Lead Chromate; 6. Vermilion (the oldest of brilliant red pigments and prepared by subliming mercury and sulfur together); 7. Cadmium Red, a compound of cadmium, sulfur, and selenium, and largely used in artists' colors.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
†Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

McNulty, Joseph A, N Y
†Magruder Color Co, Inc, Staten Is, N Y
†Marx, Max Color & Chem Co, Irvington, N J
Osborn, C J, Co, N Y
Palmer Supplies Co, Cleveland, O
Porter Warner Industries, Inc, Chattanooga, Tenn
†Smith, J Lee, & Co, Inc, N Y
†Williams, C K, & Co, E St Louis, Ill

PIGMENTS

CADMIUM REDS Light-fast, heat-resistant orange-reds, reds, and maroons

CADMIUM YELLOWS Light-fast, heat-resistant lemon-yellows, yellows, and orange-yellows

PURE ENGLISH (QUICKSILVER) VERMILIONS High-opacity, chemically resistant oranges, reds, and maroons

CARMINE NO. 40 N.F. Non-aniline, vegetable pure food color. Meets all pure food color regulations

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263 WRIGHT STREET
NEWARK 5, NEW JERSEY

PIGMENTS, RUBBER

A wide variety of products used to impart colors to finished rubber articles and roughly classified as chemical or mineral pigments. Mineral pigments must withstand action of sulfur in the vulcanization operation, and usually iron oxides, zinc oxides, chromium oxides, complex sulfides of antimony, cadmium, mercury, and zinc, ultramarine blue and Prussian blues. Titanium oxides, carbon black, etc., are employed. Chemical pigments are in the form of lakes, toners, dyes, etc. Specially dispersed pigments and colors are required for latex.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†English Mica Co, Sterling Bldg, Stamford, Conn — Stamford 4-9531
†Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Akron Chem Co, Akron, O
†Eagle Picher Co, Cincinnati, O
†Federal Color Labs, Inc, Cincinnati, O
Kendall, J A, Akron, O
McNulty, Joseph A, N Y
†Magruder Color Co, Inc, Staten Is, N Y
Osborn, C J, Co, N Y
†Smith, J Lee, & Co, Inc, N Y
†Williams, C K, & Co, E St Louis, Ill

PIGMENTS, TEXTILE

Finely divided pigments used with thickeners principally to impart a free-flowing body to printing pastes as well as to supply tinting properties.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870

PIGMENTS, TEXTILE (cont'd)

†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Warwick Chem Co, Long Is City, N Y
†Williams, C K, & Co, E St Louis, Ill

PIGMENTS, TITANATED LITHOPONE

Titanated lithopones widely used to increase the opacity of either flats, enamels, or exterior paints; also as beater addition or for surface application in paper making. Their tin to medium consistency permits high pigmentation at low consistencies, or their high opacity may be used to produce high-hiding finishes at low-pigment concentration.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†New Jersey Zinc Sales Co, N Y

PIGMENTS, TITANIUM

Outstanding characteristics are great hiding power, chemical inertness, stability, ability to withstand extreme conditions of exposure without alteration or discoloration. Basic raw material is ilmenite and the principal titanium pigments are Titanium Barium Pigment, Titanium Calcium Pigment, Titanium Magnesium Pigment, and Titanium Dioxide. Titanium pigments are used in the manufacture of paint, paper, oil-cloth, linoleum, textiles, ink, rubber goods, and in many other industries where white pigments are required. **See also: Titanium Dioxide.**

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

PIGMENTS, WHITE

Materials which impart a white color to paints, lacquers, rubber, oil-cloth, linoleum, enamels, paper, textiles, cosmetics, leather, etc. Most common white pigments are lithopones, titanium oxides, extended titanium pigments, barytes, titanated lithopones, zinc sulfide, zinc **oxides, etc.**

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Georgia Kaolin Co, 433 N Broad St, Elizabeth, N J — Elizabeth 2-1636
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

†Eagle Picher Co, Cincinnati, O
†Edgar Bros Co, Metuchen, N J
Porter Warner Industries, Inc, Chattanooga, Tenn
†Unico, N Y

MAPICO COLORS



YELLOWS • TAN
REDS • BROWNS
BLACK

COLUMBIAN CARBON COMPANY
Magnetic Pigment Division
BINNEY & SMITH CO., Distributor
41 East 42nd St., New York 18, N. Y.

PIGMENTS, YELLOW

Most commonly employed yellow pigments are: 1. Chrome Yellows, varying in color from pale yellow to dark orange. They are brilliant in tone and of considerable opacity and strength of color, and are reasonably permanent; 2. Barium Chromate, pale yellow in color, and unaffected by hydrogen sulfide; 3. Zinc Chrome, pale yellow in color, but completely decomposed by acids and alkalies, but resistant to heat; 4. Yellow Oxide, artificially prepared, stronger in color than ochre, inert, and resistant to heat; 5. Cadmium Yellow, which is a sulfide of cadmium, durable, and lightproof; 6. Yellow ochres; 7. Siennas.

PIGMENTS, YELLOW (cont'd)

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
†Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
†Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Barnett Labs, Long Beach, Calif
†Magruder Color Co, Inc, Staten Is, N Y
†Marx, Max Color & Chem Co, Irvington, N J
Osborn, C J, Co, N Y
†Smith, J Lee, & Co, Inc, N Y
†Western Dry Color Co, Chicago, Ill
†Williams, C K, & Co, E St Louis, Ill

PIGMENTS, ZINC

Principal members of this group are: 1. Zinc oxides, sometimes known as "Zinc White" and produced by the American process direct from the ore, or by the French process from spelter. Available in the dry form or ground in oil to form a paste; 2. The leaded zinc oxides: 3. Zinc Sulfide in either the dry pigment or ground in oil; 4. Lithopone, a combination of zinc sulfide and barium sulfate, also available in the dry or paste form. See A.S.T.M. Standard Specifications. D79-24; D80-25; D386-36; D385-36. **See also: Lithopone, Zinc Oxide, Zinc Sulfide.**

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Amer Zinc Sales Co, Columbus, O
Associated Lead & Zinc Co, Seattle, Wash
†Eagle Picher Co, Cincinnati, O
†New Jersey Zinc Sales Co, N Y
†Unico, N Y
Zimmerman, C L, Co, Cincinnati, O

PINACOL

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Jorala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137

PINACOLONE

†Jorala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137

PINE CREOSOTE

An oily distillate from wood from pine trees. Uses—mfr. disinfectants; in medicine.

†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

PINENE, ALPHA

$C_{10}H_{16}$. Colorless liquid. Sp. gr., 0.862 at 15.5/15.5°C. B.P., 155-156°C. Flash point (closed cup), 33°C. Uses—solvent for paints and varnishes; manufacture of synthetic camphor, terpineol and terpin hydrate.

Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Hercules Powder Co, 978 Market St, Wilmington, Del
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131

Colledge, E W, GSA, Inc, Jacksonville, Fla
Hueston, C L, Detroit, Mich
Schibley & Ossmann, Inc, Cleveland, O
Wilson, T C, Co, San Fran, Calif

PINENE, BETA

Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131

Wilson, T C, Co, San Fran, Calif

PIPERAZINE (Hexahydropyrazine, Diethylenediamine)

$NH(CH_2)_2(CH_2)_2NH$. M.W. 86.14. Colorless, deliquescent, transparent, needlelike crystals. Absorbs CO_2 from air. Should be kept well stoppered. M.P. 104°C. B.P. 145°C. Sol. water, alcohol. Uses—medicine.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005

PIPERAZINE (cont'd)

Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7550
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660

PIPERIDINE (Hexahydropyridine, Pentamethylene Amine)

$C_5H_{11}N$. M.W. 85.1. Colorless liq. Sp. gr. 0.862. M.P. —9°C. B.P. 106°C. Sol. alcohol, water, ether. Uses—organic synthesis; rubber accelerator; in medicine.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

PITCH BURGUNDY

Aromatic oily resin obtained by distillation of European pine species.

Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Hird & Connor, Inc, Boston, Mass
†Mobile Rosin Oil Co, Mobile, Ala
†Southern Naval Stores Div, Leach Bros, Columbia, Miss
†West Co, Chelsea, Mass
Wilson, T C, Co, San Fran, Calif

PITCH COAL TAR

Dark-brown to black, solid, amorp. Sp. gr. 1.07. M.P. 60-120°C. Sol. alcohol, benzene, carbon disulfide. Uses—mfr. waterproof and acidproof paints, varnishes and roof cements, electrical insulating and roofing compositions, furnace electrodes, roofing paper, shoemakers wax, felt; water-proofing agent in construction work (concrete stone, etc.); preserving wood; paving stone and paving roads; binder for coal dust fuels; fuel binder for cores in casting metal. Grades—tech.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Coopers Creek Chem Corp, W Conshohocken, Pa
†Eastern Tar Prods Corp, Baltimore, Md
†Lewis Tar Prods Co, Lyons, Ill
Tar Residuals, Inc, N Y

PITCH COKE

From distillation of tar. Black, solid amorp. Contains 5% volatile matter. Low ash content. Sp. gr. 34 lb. 1 cu. ft. from still. Above 1 in. size, 28-30 lbs. 1 cu. ft. Below 1 in. size, 40-45 lbs. 1 cu. ft. Uses—mfr. water gas; as domestic, industrial and metallurgical fuel, carburizing steel in open hearth. Grades—tech.

Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Eastern Tar Prods Corp, Baltimore, Md
Van Waters & Rogers, Inc, Portland, Ore

PITCH, COTTONSEED

†Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
†Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
†Chaplain & Bibbo, 75 West St, N Y — Bowling Green 9-5636
†Darling & Co, 4204 S Ashland Av, Chicago, Ill — Yards 7-3000
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
†Woburn Chem Corp, Harrison, N J — Kearny 2-3300
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Howell, Edwin R, Detroit, Mich
†Southern Cotton Oil Co, N Y

PITCH HARDWOOD

Residue from destructive distillation of hardwood. Uses—as wood preservative; disinfectant; fuel.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Cliffs Dow Chem Co, Marquette, Mich

PITCH LINSEED

Residue from the refining of linseed oil.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
†Woburn Chem Corp, Harrison, N J — Kearny 2-3300
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383

PITCH PALM

Black, solid amorp. Sp. gr. 1.045-1.050. M.P. about 95°C. Sol. benzene. Uses—mfr. varnishes; in electrical insulation; as lubricant. Grades—tech.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
†Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
†Chaplain & Bibbo, 75 West St, N Y — Bowling Green 9-5636
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454

PITCH PALM (cont'd)

†Woburn Chem Corp, Harrison, N J — Kearny 2-3300
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383

PITCH PINE (Pitch Prime)

Black, solid, amorp. Sp. gr. 1.105. M.P. 82°C. Sol. benzene, pyridine bases and petroleum ether. Uses—mfr. shoemaker's wax; preserving timber. Grades—prime.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
†National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Fidelity Trading Co, Inc, San Fran, Calif
†Mobile Rosin Oil Co, Mobile, Ala
Wilson, T C, Co, San Fran, Calif

PITCH ROSIN

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383

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PITCH STEARINE

Obtained as by-product from soap and candle stock manufacture, and refining of refuse greases, vegetable oils, and wool grease. Dark brown to black; bright luster. Sol. in naphtha, carbon bisulfide. Uses—manufacture of black paints and varnishes; tarred papers; printers' rolls; rubber filling agent; marine caulking; waterproofing.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
†Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
†Chaplain & Bibbo, 75 West St, N Y — Bowling Green 9-5636
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Darling & Co, 4204 S Ashland Av, Chicago, Ill — Yards 7-3000
†General Mills, Inc, Chem Div, 400 2 Av S, Minneapolis, Minn — Atlantic 1144
†Gross, A, & Co, 295 Madison Av, N Y — Murray Hill 3-8250
Hardesty, W C, Co, Inc, 41 E 42 St, N Y — Murray Hill 2-1920
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

†Gen Metallic Oxides Co, Jersey City, N J
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†General Mills, Inc, Chem Div, 400 2 Av S, Minneapolis, Minn	Atlantic 1144
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

Rimco Trading Corp, N Y

PITCH VEGETABLE

Residue from the distillation of vegetable materials. Uses—mfr. varnishes, coating tarpaulins, paper, electrical insulation. Grades—tech

†Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
†Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
†Chaplain & Bibbo, 75 West St, N Y	Bowling Green 9-5636
†Darling & Co, 4204 S Ashland Av, Chicago, Ill	Yards 7-3000
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
†General Mills, Inc, Chem Div, 400 2 Av S, Minneapolis, Minn	Atlantic 1144
†Gross, A, & Co, 295 Madison Av, N Y	Murray Hill 3-8250
Hardesty, W C, Co, Inc, 41 E 42 St, N Y	Murray Hill 2-1920
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O	Woodbine 1-4690
†Wolburn Chem Corp, Harrison, N J	Kearny 2-3300
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

Knapp, Harry G, St Louis, Mo

PITCH WOOL

Black, solid amorp. Uses—mfr. varnishes, coating tarpaulins, paper, electrical insulation, paints, printers' rolls; in marine caulking; as waterproofing impregnating agent. Grades—tech.

Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
†Robinson-Wagner Co, 110 E 42 St, N Y	Murray Hill 3-1184
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383

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†Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
†Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
†Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241

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Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
†Ohio-Apex Inc, Nitro, W Va	Nitro 152
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
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†Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill	Bishop 2-1374
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
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†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn	Atlantic 2112
†Baker Caster Oil Co, 119 Bway, N Y	Digby 9-0500

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Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
†Dow Chem Co, Midland, Mich	Midland 500
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
†Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
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Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
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Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
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†Baker Caster Oil Co, 119 Bway, N Y	Digby 9-0500
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Binney & Smith Co, 41 E 42 St, N Y	Murray Hill 2-1960
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
†Dow Chem Co, Midland, Mich	Midland 500
†Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
†Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
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Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
†Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
†Ohio-Apex Inc, Nitro, W Va	Nitro 152
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
†Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y	Beekman 3-3162
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
†Stahl Finish Co, 23 Caller St, Peabody, Mass	Peabody 371
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420
†Velsicol Corp, 330 E Grand Av, Chicago, Ill	Delaware 7-7383
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
†Gen Electric Co, Pittsfield, Mass	
†Harsyd Chems, Inc, Holland, Mich	Irvington Varnish & Insulator Co, Irvington, N J
	Kendall, J A, Akron, O

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†Baker Caster Oil Co, 119 Bway, N Y	Digby 9-0500
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
Binney & Smith Co, 41 E 42 St, N Y	Murray Hill 2-1960
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000

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PLASTICIZERS, VINYL

†Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
†Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill	Bishop 2-1374
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728

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Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
†Dow Chem Co, Midland, Mich	Midland 500
†Drew, E F, & Co Inc, 15 E 26 St N Y	Murray Hill 6-2800
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
†Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Hardesty Chem Co, Inc, 41 E 42 St, N Y	Murray Hill 2-6270
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Hercules Powder Co, 978 Market St, Wilmington, Del	
†Indoil Chem Co, 910 S Michigan Av, Chicago, Ill	Harrison 7-9200

PLASTICIZERS, VINYL (cont'd)

†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Pan Amer Refg Corp, 122 E 42 St, N Y — Lexington 2-4322
†Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
†Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Deecy Prods Co, Cambridge, Mass
†Gen Electric Co, Pittsfield, Mass
†Goodrich, B F, Chem Co, Cleveland, O
Kendall, J A, Akron, O
Rohie, Milton F, S Braintree, Mass
†Specialty Resins Co, Lynwood, Calif

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Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232

†Amer Metal Co, Ltd, N Y
†Anaconda Copper Mining Co, N Y
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†Bishop, J, & Co Platinum Wks, Malvern, Pa
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Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

†Bishop, J, & Co Platinum Wks, Malvern, Pa

POLYBUTENES (Polyisobutylenes)

Synthetic polymers. Pale colored, chemically inert liquids of moderate to high viscosity and tackiness. Uses: impregnation of paper insulation for electrical uses; adhesives, tapes, cements; extenders, modifiers of commercial latex; plasticizers for resins; powder metallurgy; waterproofing coatings; paste inks; hydraulic or shock absorbing fluids.

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Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
†Indoil Chem Co, 910 S Michigan Av, Chicago, Ill — Harrison 7-9200
†Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923

Kendall, J A, Akron, O

POLYETHYLBENZENE

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240

POLYETHYLENE (Polythenes)

$(CH_2CH_2)x$. Series of white, waxy, translucent thermoplastic hydrocarbon polymers. Tasteless, odorless, nontoxic. Tough, strong, cold-drawable, flexible. Uses: wire covering, unsupported films, injection molding, paper coating, potting, wax modification.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121

Amer Pyroxylin Corp, Arlington, N J
Grore, M O, & Co, San Fran, Calif
†Blum, Paul, Co, Buffalo, N Y

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$C_{17}H_{33}COOCH_2CH_2O(CH_2CH_2O)_{12}CH_2CH_2OH$. M.W. 898. Uses: level dyeing assistant, non-ionic component of blended detergent preparations, emulsifying material for water-insoluble oils.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
†Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Ninol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
†Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200

POLYETHYLENE GLYCOL STEARATE

Uses: non-ionic emulsifier, suspending and thickening agent for edible and technical products.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760

POLYETHYLENE GLYCOL STEARATE (cont'd)

†Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hardesty, W C, Co, Inc, 41 E 42 St, N Y — Murray Hill 2-1920
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Ninol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
†Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200

†Amalgamated Chem Corp, Phila, Pa

POLYGLYCOL

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760

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Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Oronite Chem Co, 38 Sansome St, San Fran, Calif — Extrook 2-0923

POLYOXYETHYLENE ESTERS

†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700

†Specialty Resins Co, Lynwood, Calif

POLYPENTAERYTHRITOL

White powder. Mixture of tripentaerythritol and higher polypentaerythritols. Uses: manufacture of varnishes, alkyd and hard resins, synthetic drying oils.

†Trojan Powder Co, Allentown, Pa — 45201

POLYPROPYLENE GLYCOLS

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
†Dow Chem Co, Midland, Mich — Midland 500

POLYSTYRENE

$(C_8H_8)X$. Softening point—various, according to degree of polymerization. Color—light yellow to water white. Solubility—soluble in aromatic hydrocarbons, chlorinated hydrocarbons and esters. Resin characteristics—thermoplastic. Molds under pressure at temperatures of 150-200°C. Very low water absorption. High dielectric value. High mechanical strength. Modifications—sometimes modified with plasticizers or fillers. Uses—molding by injection, extrusion or casting. Impregnation of electrical coils. Lamination of fabrics. Bonding of abrasive wheels. Surface finishes.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Dow Chem Co, Midland, Mich — Midland 500
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
★†Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686

†Amer Molding Powder & Chem Corp, Bklyn, N Y
Bamberger, A, Corp, Bklyn, N Y
†Blum, Paul, Co, Buffalo, N Y
Amer Pyroxylin Corp, Arlington, N J

POLYVINYL ACETATE

$(CH_2CHOOCCH_3)$. Colorless, odorless, tasteless, transparent, synthetic resin. Thermoplastic. Density 1.189 (15°C.). Insol. water, gasoline, oils, fats. Sol. lower alcohols and esters, benzene, chlorinated hydrocarbons, ketones. Water-emulsion stable. Uses—in protective, wear-resistant films and coatings; as a size or stiffener for specialty paper; in heat-sealing and solvent-activated adhesives; in lacquers, paints, gravure and emulsion-type printing inks. Grades—solid resin in low, medium, and high viscosities; water emulsions and solutions in organic solvents--low and high viscosity.

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Chemical Division, Pittsburgh 19, Pa.

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Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243

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†Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
†Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
†National Casein Sales, 601-619 W 80 St, Chicago, Ill — Vincennes 6-7300
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
†Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243

Var-Lac-Oil Chem Co, N Y
†Arabol Mfg Co, N Y
†Amalgamated Chem Corp, Phila, Pa

POLYVINYL BUTYRAL

$[CH_2CHOCH(C_3H_7)OCHCH_2]_x$. M.W. 24,000. Colorless, odorless, thermoplastic, synthetic resin with good form stability. Sol. alcohols, ketones, esters and aromatic hydrocarbons. Insol. water, aliphatic hydrocarbons, animal, mineral, and vegetable oils. Uses: standard interlayer material for safety glass, in textile coatings and finishing, as adhesives including pressure-sensitive tapes.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243
Bamberger, A, Corp, Bklyn, N Y

POLYVINYL CHLORIDE (Polychloroethylene, Polychloroethane)

$(CH_2{:}CHCl)x$. Wide range of thermoplastic synthetic resins made from HCl and acetylene. Uses: in making plastic materials ranging from soft gels or rubber-like materials to hard, horny solids.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
★†Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
Bamberger, A, Corp, Bklyn, N Y — Inco Trading Co, N Y
†Blum, Paul, Co, Buffalo, N Y

POLYVINYL FORMAL

$(CH_2CHOCH_2OCHCH_2)_x$. M.W. 12,500. Thermoplastic, light straw-colored synthetic resin with good form stability. Sol. dioxan, ethylene dichloride. Insol. water, lower alcohols and esters, glycols, ethers, and toluene. Uses: coating of magnet wire; in adhesives, high-impact moldings.

†Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243

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†Dow Chem Co, Midland, Mich — Midland 500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

POTASSIUM (Kalium)

K. Soft, silvery metal. Decomposing water, explosively. Sp. gr. 0.8621. M.P. 62.5°C. B.P. 757.5°C. Sol. alcohol, mercury acids. Uses—as laboratory reagent. Grades—tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Mackay, A D, Inc, N Y

POTASSIUM ACETATE (Diuretic Salt, Potassii-Acetas)

$KC_2H_3O_2$. White, hygroscopic, crystalline powd. Sp. gr. 1.8. M.P. 292°C. Sol. water, alcohol. Uses—mfr. acetone, pharmaceutical derivatives, crystal glass; dehydrating agent in chemical processes; laboratory reagent; in medicine. Grades—U.S.P. recrystallized; C.P.; reagent; pure; pure fused.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

POTASSIUM ACID FLUORIDE (Potassium Bifluoride)

$KF.HF$. M.W. 78.1. Colorless crystals. Sol. water. Uses—as an antiseptic; in etching of glass.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220

POTASSIUM ACID FLUORIDE (cont'd)

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214

POTASSIUM ALGINATE (Potassium Polymannuronate)—see also Algin

$(C_6H_7O_6K)x$. M.W. not determined. Cream colored powder. Uses: hydrophilic colloid in dental impression gel compounds, eye impression materials, various prosthetic uses.

†Kelco Co, 31 Nassau St, N Y — Beekman 3-7367
†Algin Corp of Amer, N Y

POTASSIUM AMMONIUM PHOSPHATE

$K(NH_4)_2PO_4$; $K_3(NH_4)PO_4$. M.W. 170.26; 191.21 respectively. White, crystalline solids, or powder. Very sol. in water. Uses—mfr. fertiliser compounds, detergent and cleansing preparations; analytical reagent for adjusting pH (acidity) of aqueous solutions.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

POTASSIUM ARSENATE (Macquer's Salt)

KH_2AsO_4. M.W. 180.05. Colorless cryst. Sp. gr. 2.867. Sol. water. Uses—mfr. fly paper, insecticidal preparations; as laboratory reagent; preserving hides; printing textiles.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151

POTASSIUM BICARBONATE (Potassium Acid Carbonate, Salaterus)

$KHCO_3$. Colorless, transparent, odorless cryst. Sp. gr. 2.17. M.P. decomposes at 100-200°C. Sol. water, and potassium carbonate solution. Uses—mfr. potassium carbonate, potassium salts, baked products, baking powds., candies, confectionery; reagent in making chemicals; in medicine. Grades—U.S.P.; C.P.; commercial cryst., powd.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531

POTASSIUM BICHROMATE (Potassium Dichromate, Red Potassium Chromate)

$K_2Cr_2O_7$. Yellowish-red cryst. Sp. gr. 2.692. M.P. 396°C. B.P. decomposes at 500°C. Sol. water. Uses—mfr. alkaline chlorates, organic and inorganic chemicals, intermediates, poison fly paper, aniline violet, coal-tar products, glass, glues, adhesives, synth. perfumes, dry colors, printing inks, alizarine, chrome alum, ceramics, linoleum, oilcloth, paints, varnishes, bichromate electric batteries, matches, match -striking and pyrotechnic compositions, nitroglycerine explosives, chrome pigments, blue print paper; as general oxidizing and general bleaching agents; discharge, photographic, and laboratory reagents; reagent in dyeing and printing textiles; engraving and other printing purposes; chrome tanning leather, staining wood; bleaching fats, oils, resins and waxes; refining oil and tallow; electroplating; brass pickling; in medicine. Grades—tech.; U.S.P.; powdered; fused; reagent.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Coburn, C B, Co, 65 Market St, Lowell, Mass — Lowell 9331
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Lo 7-4650
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
LaPlace, L J & M, 113 Zabriskie St, Hackensack, N J — Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Mutual Chem Co of Amer, 270 Madison Av, N Y — Caledonia 5-9710
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Natural Prods Refg Co, 902 Garfield Av, Jersey City, N J — Bergen 3-4060
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676

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Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Globe Chem Co, Cincinnati, O	Legion Export & Import Co, Inc, N Y
†Hooper Chem Corp, Rutherford, N J	Mfrs Chem Co, N Y
Hooper Chem Corp, Rutherford, N J	

POTASSIUM BINIODATE

†City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

POTASSIUM BINOXALATE (Potassium Acid Oxalate, Salt of Sorrel, Essential Salt of Lemon, Sal Acetosella)

KHC_2O_4. White, solid, hygroscopic crystalline. Sp. gr. 2.088 (anhydrous). Decomposes on heating. Sol. water. Uses—cleaning and scouring metals and wood; ink stain remover; photographical purposes; bleaching straw. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723

POTASSIUM BISMUTH TARTRATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818

POTASSIUM BISULFATE (Potassium Acid Sulfate, Sal Enixium)

$KHSO_4$. M.W. 136.17. Colorless, deliq. cryst. Sp. gr. 2.245. M.P. 210°C. B.P. decomposes. Sol. water; decomposed by alcohol. Uses—mfr. cream of tartar, anisol, intermediates, organic chemicals; flux in metallurgy; food preservative. Grades—commercial; reagent; fused; highest purity; medicinal.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
United Sterling Corp, 37 E 28 St, N Y	Murray Hill 9-2686

POTASSIUM BISULFITE (Potassium Acid Sulfite)

$KHSO_3$. White, crystalline powd., sulfur dioxide odor. Decomposes on heating. Sol. water; insol alcohol. Uses—mfr. sodium hydrosulfite, inorganic chemicals; bleaching, dyeing and printing textiles; bleaching tannin extracts and straw; solubilizing dyestuffs; tanning leather; reducing agent in making organic chemicals and intermediates; general antiseptic and cleansing agent; laboratory reagent. Grades—commercial; reagent; highest purity; medicinal.

Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735

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POTASSIUM m-BISULFITE (Potassium Pyrosulfite)

$K_2S_2O_5$. White, crystalline crusts. Decomposes on heating. Slightly sol. water. Uses—mfr. sulfurous acid for chemical purposes; antiseptic and preservative of foods, etc.; photographic developer; laboratory reagent; assistant in dyeing and printing textile fabrics; engraving and lithography; in brewing; in medicine. Grades—cryst.; powd.; C.P.; tech.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
†Estón Chems Inc, 3100 E 26 St, Los Angeles, Calif	Angelus 9-8183
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Hunt, Philip A, Co, Palisades Park, N J	Leonia 4-4000
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif	Kimball 2214
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Heyman, N H, Inc, N Y	Norman-Willets Co, Chicago, Ill

POTASSIUM BITARTRATE (Cream of Tartar, Potassium Acid Tartrate, Depurated Tartar)

$KHC_4H_4O_6$. White, solid cryst. Sp. gr. 1.956. Decompose on heating. Sol. water; slightly sol. alcohol. Uses—mfr. baking powds.; in cooking; metal coloring; contact tinning; in medicine. Grades—tech., C.P.; U.S.P.; crude (see Argols).

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Duché, T M, & Sons, Inc, 117-119 Hudson St, N Y	Walker 5-5530
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800

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POTASSIUM BITARTRATE (cont'd)

★†Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

Taussig, F H, Chems, N Y

POTASSIUM BORATE (Potassium Biborate, Potassium Tetraborate)

$K_2B_4O_7 + 5H_2O$. M.W. 323.88. White crystalline powder.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Pacific Coast Borax Co, 51 Madison Av, N Y	Lexington 2-5919

POTASSIUM BROMATE

$KBrO_3$. M.W. 167.02. White crystalline powd. Sp. gr. 3.27. Decomposes at 370°C. Sol. water, alcohol, ether. Uses—laboratory reagent. Grades—tech.; pure; C.P.; U.S.P.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Dow Chem Co, Midland, Mich	Midland 500
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
†Michigan Chem Corp, St Louis, Michigan	41
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Sterwin Chems, Inc, 1450 Bway, N Y	
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

Wise, Irving, & Co, Inc, N Y

POTASSIUM BROMIDE (Potassii Bromidium)

KBr. M.W. 119.02. White regular, hygroscopic cryst. or powd. Sp. gr. 2.68 (15°C.). M.P. 730°C. B.P. 1380°C. Sol. water; slightly sol. alcohol, ether. Uses—mfr. photographic emulsions, soap; engraving and lithography; in medicine. Grades—U.S.P.; C.P.; cryst.; granular; powd.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Amer Potash & Chem Corp, 122 E 42 St, N Y	Murray Hill 5-7142
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Dow Chem Co, Midland, Mich	Midland 500
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
†Michigan Chem Corp, St Louis, Michigan	41
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

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K_2CO_3. White, deliq. powd. Sp. gr. 2.3312 (17°C.). M.P. 896°C. Decomposes on further heating. Sol. water. Uses—mfr. potassium salts, oxalic acid, potassium cyanide, inorganic chemicals, glass, mineral waters, food and perfume preparations, soft soaps, toilet articles, ceramics, blue-print paper, dry colors, printing inks, explosives, explosive compositions, fertilizers; dehydrating agent; brewing beer; washing textiles, wool and silk; bleaching and dyeing textiles; engraving and lithography; electroplating reagent; tanning leather; in medicine. Grades—calcined 80-85%, 85-90%, 90-95%, 96-98%; hydrated 80-85%; U.S.P.; reagent.

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Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919

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LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Niagara Alkali Co, 60 E 42 St, N Y	Murray Hill 2-8090
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811

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Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2810
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Browning, E S, Co, San Fran, Calif	Lotte Chem Co, Inc, Paterson, N J

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POTASSIUM CHLORATE (Potassium Oxymuriate Potassii Chloras)

$KClO_3$. M.W. 122.56. Colorless, odorless, lustrous cryst. Sp. gr. 2.337. M.P. 368.4. Decomposes at 400°C. Sol. water, alkalies; slightly sol. alcohol. Uses—mfr. chlorate explosives, safety matches; pyrotechnic compositions, ammunition, paper, dry colors, printing inks, dyestuffs, alizarine; oxidizing agent in chemical processes; assistant in dyeing and printing fabrics; general disinfectant; agent in acid proofing; in medicine. Grades—U.S.P.; C.P.; tech.; cryst.; powd.; also special pyrotechnic powds.

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†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
Davies Nitrate Co Inc, 118 Liberty St, N Y	Rector 2-6095
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Oldbury Electro Chem Co, 19 Rector St, N Y	Digby 4-1668
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870

POTASSIUM CHLORATE

ALL GRADES *and other*
Chemicals, Solvents and Coal Tar Products

Republic Chemical Corp.
94 Beekman Street, New York 7
Cable Address: Jaynivrad

POTASSIUM CHLORATE (cont'd)

Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Croton Chem Corp, N Y — Rimco Trading Corp, N Y
Hardy, Charles, Inc, N Y — Steele, Ben P, Co, N Y
Hardy, M W, & Co, Inc, N Y

POTASSIUM CHLORIDE (Sylvite)

KCl. M.W. 74.56. Colorless, cubic crystalline granules or powder. Sol. in water, alcohol, and alkalies. Sp. gr. 1.988. M.P. 790°C. B.P. 1500°C. Grades—reagent (C.P.), N.F., tech. Uses—analytical

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Amer Potash & Chem Corp, 122 E 42 St, N Y — Murray Hill 5-7142
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Davies Nitrate Co Inc, 118 Liberty St, N Y — Rector 2-6095
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686

Chem Advance Corp, Phila, Pa — †Potash Co of Amer, Carlsbad, N M
Croton Chem Corp, N Y — Priddy, C W, & Co, Inc, Norfolk, Va
Hardy, M W, & Co, Inc, N Y — †Schuylkill Chem Co, Phila, Pa
Intnl Ore & Fertilizer Corp, N Y — †U S Potash Co, N Y
McIver, Alex M, & Son, Charleston, S C — Woodward & Dickerson, Inc, Phila, Pa

POTASSIUM CHROMATE

K_2CrO_4. Yellow cryst. Sp. gr. 2.7319 (18°C.). M.P. 971°C. Sol. water; insol. alcohol. Uses—mfr. dyestuffs, aniline black, writing inks, chromate pigments, enamels; oxidizing agent in making intermediates and organic chemicals; laboratory reagent; finishing leather; mordant in dyeing and printing textiles; in medicine. Grades—cryst.; reagent; commercial; crude; highest purity.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Mutual Chem Co of Amer, 270 Madison Av, N Y — Caledonia 5-9710
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

POTASSIUM CITRATE

$K_3C_6H_5O_7.H_2O$. M.W. 324.40. White, crystalline powder. Sol. in water. Slightly sol. in alcohol. Uses—mfr. pharmaceutical and medicinal preparations.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Schuylkill Chem Co, Phila, Pa

POTASSIUM CREOSOTE SULFONATE

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

POTASSIUM CYANATE

KCNO. M.W. 81.11. A white crystalline solid, specific gravity 2.05. Readily soluble in water and anhydrous ammonia, insoluble in absolute alcohol. Melts at dull red heat without decomposition. Principal consumption of Potassium Cyanate is in the manufacture of organic chemicals and drugs. Hypnotics, narcotics and similar drugs are made from this product. Typical products are known chemically as substituted ureas, urethanes or hydantoins.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

POTASSIUM CYANIDE

KCN. White, deliq. amorp. or crystalline powd., faint odor of bitter almonds. Sp. gr. 1.52. M.P. and B.P. red heat. Sol. water, alcohol, glycerine. Uses—mfr. paper, insecticidal compositions; extracting gold and silver from ores; case hardening and quenching baths in treating steel; electroplating metals; reagent in assay laboratory and in making intermediates and organic chemicals; fumigant for food granaries, and cotton; engraving and lithography; assistant in dyeing and printing textiles; in brass and metal industry; in medicine. Grades—commercial; pure; reagent; C.P.; U.S.P.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
*Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151

POTASSIUM CYANIDE (cont'd)

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Hardy, Charles, Inc, N Y — Wagner, A T, Co, Detroit, Mich

POTASSIUM ETHYL XANTHATE (Potassium Xanthogenate)

$C_2H_5O.CS_2K$. Pale yellowish green powder. Very soluble in water and soluble in alcohol. Uses—as a mineral ore flotation agent. Grades—tech. (90%).

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Amer Cyanamid Co, Mineral Dressing Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-900

POTASSIUM FERRICYANIDE (Potassium Prussiate Red, Red Prussiate of Potash, Ferric Potassium Cyanide)

$K_3Fe(CN)_6$. Bright red cryst. or powd. Sp. gr. 1.894. Decomposes when heated. Sol. water; insol. alcohol. Uses—mfr. blue pigments, photographic and etching papers, leather, paper, fertilizers; mordant in dyeing and printing textiles; discharge in calico printing; quenching agent in tempering steel; mordant in dyeing wood; in electroplating. Grades—tech.; recrystallized.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Conray Prods Co, 510 6 Av, N Y — Oregon 3-2505
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870

Norman-Willets Co, Chicago, Ill — Taussig, F H, Chems, N Y

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COLOR GRANULAR

Versatile chemical with many uses in paper manufacture, synthetic rubber, calico printing, pigments, tempering of steel, photographic bleach and toners, mild oxidizing agent, analytical chemistry, and blue print coating.

$K_3Fe(CN)_6$

Mol. Wgt. 329.18	Chlorides 0.020%
Ferrous Salts ..... trace	Assay 99.0%
Sulphates 0.009%	Insolubles ..... trace

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BROOKLYN, N. Y. DALLAS, TEXAS LOS ANGELES, CALIF.

POTASSIUM FERROCYANIDE (Potassium Prussiate Yellow, Yellow Prussiate of Potash, Ferrous Potassium Cyanide)

$K_4Fe(CN)_6.3H_2O$. Lemon-yellow cryst. or powd. Sp. gr. 1.8533 (17°C.). Decomposes when heated. Sol. water. Uses—mfr. potassium cyanide and other cyanides, Prussian blue, pigments, explosive compositions; case hardening and tempering steel; laboratory reagent; mordant and reagent in dyeing and printing textiles; engraving and lithography; electroplating reagent; in medicine. Grades—tech.; recrystallized; C.P.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151

PRUSSIATES

Yellow Prussiate of Potash

Yellow Prussiate of Soda

Red Prussiate of Potash

REDSOL * Crystals

Potassium Sodium Ferricyanide

REDSOL * B Solution

Sodium Ferricyanide Solution



AMERICAN Cyanamid COMPANY

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* Reg. U. S. Pat. Off.

POTASSIUM FERROCYANIDE (cont'd)

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Fife Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Hunt, Philip A, Co, Palisades Park, N J	Leonia 4-4000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Muurtskade 63, Amsterdam, Holland	
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650

POTASSIUM FLUOBORATE

KBF_4. M.W. 125.92. Sol. water, alcohol.

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa	Atlantic 1-4545
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Davison Chem Corp, 101 N Charles St, Baltimore, Md	Saratoga 3900
†Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300

POTASSIUM FLUORIDE

KF. M.W. 58.1. Colorless, cryst., hygroscopic powd. M.P. 880°C. Sp. gr. 2.48. Sol. water. Uses—mfr. ant powders; as a disinfectant; in etching of glass; as a preservative.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
†Sundheimer, Henry, Co, 103 Park Av, N Y	Murray Hill 5-4214

POTASSIUM FORMATE

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330

POTASSIUM GLUCONATE

$C_6H_8(OH)_5COOK$. M.W. 234.25. White crystalline powder. Sol. water. Use: medicinal.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800

POTASSIUM GLYCEROPHOSPHATE

$K_2C_3H_7PO_6.3H_2O$. M.W. 302.3. A thick, yellowish syrup. Sol. all prop. water; insol. in alcohol. Uses—pharm.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

POTASSIUM GOLD CYANIDE

$KAu(CN)_2$. White, crystalline powd.; sol. in water; 41% gold content min.; insol. in potassium cyanide sol. Uses—gold plating.

Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill	Randolph 6-0232
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655

POTASSIUM GUAIACOL SULFONATE

$HOC_6H_3OCH_3SO_3K$. Fine white powder. Sol. water, slightly in alcohol. Uses—mfr. fine chemicals, pharmaceuticals; in medicine.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
European Chem Co Inc, 366 Bway, N Y	Beekman 3-6246
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

Baker's chemicals



POTASSIUM HYDROXIDE

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PHILLIPSBURG, N. J.

New York Philadelphia Chicago

POTASSIUM HYDROXIDE (Caustic Potash, Potassa, Potassium Hydrate, Kaliiange)

KOH. M.W. 56.11. White, deliq. crystalline, solid, flake, or sticks. Sp. gr. 2.044. M.P. 380°C. B.P. sublimes at white heat. Sol. water, alcohol, ether. Uses—potassium salts, oxalic acid, match head compositions, textile and toilet soaps, detergents, paper, perfume preparations, printing inks, dry colors; bleaching textiles; mercerizing cotton; laboratory reagent; in electroplating, photo-engraving and lithography; in medicine. Grades—tech. (68-92%); (73-75%); U.S.P.; C.P.; commercial—fused, broken, granulated and flake; in solution; purified by alcohol—sticks, lumps and drops; reagent.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Uhe Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574

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sticks, pellets, lumps, flakes

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POTASSIUM HYDROXIDE (cont'd)

Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Niagara Alkali Co, 60 E 42 St, N Y	Murray Hill 2-8090
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

POTASSIUM HYDROXIDE (cont'd)

†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Smith, Gee F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2810
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812

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Paradichlorobenzene • Caustic Soda
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NIALK® TRICHLORethylene

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Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
United Sterling Corp, 37 E 28 St, N Y	Murray Hill 9-2686
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Wolfen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
Browning, E S, Co, San Fran, Calif	Hardy, M W, & Co, Inc, N Y
Great Lakes Chem Co, Chicago, Ill	†Southern Alkali Co, N Y

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all 90%

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KPH_2O_2. M.W. 104.16. White, deliquescent powder or opaque, white crystals. Uses—medicinal.

†Chemo Pure Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
†Oldbury Electro Chem Co, 19 Rector St, N Y	Digby 4-1668
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870

†Southern Alkali Co, N Y

POTASSIUM IODATE

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

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Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Uhe, George, Co, Inc, 75 B Av, N Y — Watkins 9-0870

Bodman, F L, Inc, Phila, Pa

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KI Mol. wt. 166.02. Colorless or white, cubical crystals, white granules, or powder. Slightly deliquescent in moist air. Uses—Medicinal and Industrial—manuf. photographic emulsions; in animal and poultry feeds; in salt and in some drinking water.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

Bodman, F L, Inc, Phila, Pa

POTASSIUM LACTATE

†Amer Maize Prods Co, 100 E 42 St, N Y — Murray Hill 3-9200
†Sheffield Farms Co, Inc, Chemurgic Div, P O Box 630, Norwich, N Y — Norwich 915

POTASSIUM LAURATE

$C_{11}H_{23}COOK$. Light tan paste, with slight ammonical odor. Uses—as an emulsifying agent; base for liquid soaps, shampoos, etc.

†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

POTASSIUM LINOLEATE

$C_{17}H_{33}COOK$. Light tan paste. Uses—base for liquid soaps, shampoos; emulsifying agent.

†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

POTASSIUM NAPHTHENATE

Gray paste. Uses—in driers; as an emulsifying agent.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

POTASSIUM NITRATE (Saltpetre, Nitre, Salprunella)

KNO_3. Colorless or white cryst. Natural and manufactured. Sp. gr. 2.1062 (10.6°C.). M.P. 337°C. Decomposes at 400°C. Sol. water. Uses—mfr. match head and pyrotechnic compositions, dynamite, black powd., fertilizers, glass, ceramic glazes, candles, candle wicks; in metallurgy; curing meats; processing tobacco; pickling; laboratory reagent; in medicine. Grades—U.S.P.; C.P.; pure double refined; pure triple refined; tech.; powdered; cryst.; granulated.

Acelo Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Davies Nitrate Co Inc, 118 Liberty St, N Y — Rector 2-6095

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Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Lo 7-4650
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686

†Barium & Chems, Inc, Willoughby, O
Battelle & Renwick, Inc, N Y
Groton Chem Corp, N Y
Huber, L W, Co, N Y
†Industrial Chem Supply Co, Los Angeles, Calif
McClellan, G C, & Co, Boston, Mass

POTASSIUM OLEATE

$C_{17}H_{33}COOK$. Gray-tan paste. Uses—mfr. textile soaps; as an emulsifying agent.

†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

POTASSIUM OXALATE

$K_2C_2O_4H_2O$. Colorless transparent cryst. Sp. gr. 2.08. Decomposes when heated. Sol. water. Uses—mfr. oxalic acid, stain removing compositions, pyrotechnics, matches; bleaching straw; photographic developer; laboratory reagent; in medicine. Grades—tech.; neutral; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655

POTASSIUM OXYQUINOLINE SULFATE

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
†Fisher Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-2587
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J	Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600

POTASSIUM PERCHLORATE

$KClO_4$. M.W. 138.56. Colorless cryst. Sp. gr. 2.524 (10.8°C.). M.P. 400°C. Slightly sol. water; insol. alcohol. Uses—mfr. commercial and military explosives; oxidizing agent and reagent; in medicine. Grades—tech.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
†Oldbury Electro Chem Co, 19 Rector St, N Y	Digby 4-1668
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531

Hardy, Charles, Inc, N Y

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POTASSIUM PERIODATE

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

POTASSIUM m-PERIODATE

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

POTASSIUM PERMANGANATE (Potassium Hypemanganate, Purple Salt)

$KMnO_4$. Dark purple cryst. Sp. gr. 2.7032 (99°C.). Decomposes at 240°C. Sol. water, sulfuric acid, acetic acid and alcohol. Uses: mfr. lithopone; oxidizing agent in making dyestuffs, intermediates, organic chemicals, pharmaceuticals, synth. perfumes and saccharin; bleaching and deodorizing agent for oils, fats, resins and waxes; purifying ammonia; preserving wood; purifying carbon dioxide for effervescent drinks; gray colors on copper; in brewing; bleaching silk, straw, etc.; tanning leather; photographic and laboratory reagents; coloring wood and textiles, brown shades; absorbent for military gases; deodorant and disinfectant; in medicine. Grades—tech.; C.P.; U.S.P.; cryst. (large and small).

Aceto Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120

POTASSIUM PERMANGANATE

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POTASSIUM PERMANGANATE (cont'd)

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
†Carus Chem Co Inc, Union & B Sts, La Salle, Ill	La Salle 1500
Coburn, C E, Co, 63 Market St, Lowell, Mass	Lowell 9331
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
De Bar Inc, 636 11 Av, N Y	Plaza 7-0960
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Hunt, Philip A, Co, Palisades Park, N J	Leonia 4-4000
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland	
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Opalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa	McKeesport 4-4278
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
United Sterling Corp, 37 E 28 St, N Y	Murray Hill 9-2686
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Wirtz Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

†Gen Metallic Oxides Co, Jersey City, N J — McNerney Chem Corp, Los Angeles, Calif
Import Chem Co, Jersey City, N J

POTASSIUM PERSULFATE (Anthion)

$K_2S_2O_8$. Colorless cryst. Decomposes below 100°C. Slightly sol. water. Uses—mfr. soaps; general bleaching and oxidizing agents; photographic reagent; in medicine. Grades—C.P.; tech.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531

POTASSIUM PHENYLACETATE

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000

†Trubek Labs, Inc, E Rutherford, N J

POTASSIUM PHOSPHATE DIBASIC

K_2HPO_4. M.W. 174.18. White, deliquescent crystals or powder. Very sol. in water and alcohol. Uses—analytical reagent; textile assistant, especially for wool.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000

POTASSIUM PHOSPHATE DIBASIC (cont'd)

†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

POTASSIUM PHOSPHATE MONOBASIC

KH_2PO_4. M.W. 136.14. Sp. gr. 2.338. M.P. 256°C. Sol. water, insol. alcohol. Uses—plant food.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

POTASSIUM PHOSPHATE TRIBASIC (Potassium Orthophosphate)

K_3PO_4. M.W. 212.27. White, rhombic crystals, or powder. Moderately sol. in water; insol. in alcohol. M.P. 1340° C. Uses—analytical reagent; mfr. fertilizer compounds.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

POTASSIUM PYRIDINE

Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

POTASSIUM PYROPHOSPHATE TETRA

$K_4P_2O_7$. M.W. 384.49 (tri-hydrate). White, crystalline solid. Very sol. water. Uses—clarifying agent for liquid soaps and shampoos; mfr. degumming oils for silk hosiery; mfr. textile oils, soaps.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif — Kimball 2214
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Central O-B Prods Co, Inc, Buffalo, N Y

POTASSIUM PYROSULFATE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

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$K_2S_2O_7$ FUSED

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POTASSIUM RESINATE

†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

POTASSIUM RICINOLEATE

$C_{17}H_{32}COOK$. White paste. Uses—as an emulsifying agent.

†Baker Caster Oil Co, 119 Bway, N Y — Digby 9-0500
†Kem Prods Co, Inc, Newark, N J

POTASSIUM SALICYLATE

$C_6H_4(OH)COOK$. M.W. 176.18. White powd. Sol. water, alcohol. Uses—medicine.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

POTASSIUM SALICYLATE (cont'd)

Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

POTASSIUM SILICATE (Potash Water-Glass)

$K_2O.4SiO_2$; anhydrous K_2SiO_3 is not available commercially. First formula available either as 30°B. liquid or as a glass requiring special apparatus for dissolving. M.P. probably about 1050°C. Sol. water. Uses—mfr. glass, soap, cements, paints; dyeing and bleaching. Grades—tech.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

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†Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
†Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Lo 7-4650
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
†Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214
†Baugh Chem Co, Baltimore, Md

POTASSIUM SODIUM FERRICYANIDE

$K_3NaFe(CN)_6$. Red crystals. Uses—in making blueprint paper, in photographic paper.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000

POTASSIUM SODIUM TARTRATE (Rochelle Salt, Seignette Salt)

$KNaC_4H_4O_6.4H_2O$. Colorless cryst. or powd. Sp. gr. 1.77. M.P. 70-80°C. Loses water at 215°C. Sol. water. Uses—mfr. baking powd., pharmaceuticals preparations; as laboratory reagent; silvering mir-

• ROCHELLE SALT
• CITRIC ACID
• TARTARIC ACID
• CREAM OF TARTAR
• TARTAR EMETIC

PFIZER QUALITY

Chas. PFIZER & Co., Inc.

Manufacturing Chemists Since 1849

630 Flushing Ave., Brooklyn 6, N.Y. • 425 N. Michigan Ave., Chicago 11, Ill. • 605 Third St., San Francisco 7, Calif.

POTASSIUM SODIUM TARTRATE (cont'd)

rors; electroplating reagent; in medicine. Grades—U.S.P.; tech.; reagent.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

POTASSIUM SOZOIODOLATE (Potassium diiodopara-phenolsulfonate)

$C_6H_2I_2OHSO_3K$. Colorless crystalline powder. Slightly sol. water. Uses—medicine. Shipping regulations—none.

POTASSIUM STANNATE

Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
†Metal & Thermit Corp, 100 E 42 St, N Y — Murray Hill 6-5300

POTASSIUM STEARATE

$C_{17}H_{35}COOK$. White solid. Uses—base for textile softeners.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653

Standard Soap Co of Camden, Camden, N J

POTASSIUM SULFATE (Salt of Lemery, Potassii Sulfas, Tarcanum, Sal de Doubas, Tartarus Vitriolatus)

K_2SO_4. Colorless or white cryst. or powd. Sp. gr. 2.6633 (20°C.) M.P. 1072°C. sublimes. Sol. water. Uses—mfr. alums, inorganic chemicals, potassium carbonate, glass, potassium salts, mineral waters, perfumery; as laboratory reagent; in medicine. Grades—C.P.; medicinal; tech.; crude (fertilizer).

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Amer Potash & Chem Corp, 122 E 42 St, N Y — Murray Hill 5-7142
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas — CA2371
Davies Nitrate Co Inc, 118 Liberty St, N Y — Rector 2-6095
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Page, Chas, A, Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686

Croton Chem Corp, N Y
Hardy, M W, & Co, Inc, N Y
Huber, L W, Co, N Y
Intnl Ore & Fertilizer Corp, N Y
McIver, Alex M, & Son, Charleston, S C
Potash Co of Amer, Carlsbad, N M
Priddy, C W, & Co, Inc, Norfolk, Va
†Schuylkill Chem Co, Phila, Pa
Woodward & Dickerson, Inc, Phila, Pa

POTASSIUM SULFIDE

K_2S. Red crystalline mass, deliquescent in air. Should be kept well stoppered. Sp. gr., 1.805 at 20/4°C. M.P. 471°C. Uses—reagent in analytical chemistry, depilatory. Shipping regulations, yellow label.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655

Barium & Chems, Inc, Willoughby, O

POTASSIUM SULFITE

$K_2SO_3.2H_2O$. M.W. 194.28. White crystals or crystalline powder. Sol. water; slightly sol. alcohol. Use: photographic developers.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531

POTASSIUM TARTRATE (Tartarus, Sal Vegetal, Soluble Tartar)

$K_2C_4H_4O_6.1/2H_2O$. Colorless cryst. Sp. gr. 1.9715. Sol water. Uses—mfr. potassium salts; as laboratory reagent; in medicine.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151

POTASSIUM THIOCYANATE (Potassium Sulfocyanide, Potassium Rhodanide)

KCNS. M.W. 97.17. Colorless, deliq. cryst. Sp. gr. 1.886. M.P. 173.2°C. Decomposes at 500°C. Sol. water, alcohol, acetone. Uses—mfr. sulfocyanides, cyanides, potassium derivatives, thiourea, intermediates, organic chemicals, dyes, pharmaceuticals, artificial mustard oil, paint pigments; assistant in dyeing and printing textiles; as laboratory reagent; refrigerant. Grades—pure; purified; reagent; tech.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

POTASSIUM THIOCYANATE
Technical & N.F.
SODIUM THIOCYANATE
CALCIUM THIOCYANATE
and other Calcium Salts

CHEMO PURO MANUFACTURING CORP.
26-32 Skillman Ave. Long Island City, N. Y.

POTASSIUM TITANATE

★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

POTASSIUM TITANIUM FLUORIDE

TiK_2F_6. White leaflets.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214

POTASSIUM TITANIUM FLUORIDE
(Potassium Fluotitanate)
FAESY & BESTHOFF INC. WORTH 4-8585
325 Spring St., New York 13,N.Y.
Plant and warehouse: Hicksville, L. I.

POTASSIUM TITANIUM OXALATE

$TiO(CO_2CO_2K)_2.2H_2O$. Greenish-white cryst. Sol. water. Uses—mordant in dyeing and printing textiles; mordant in dyeing leather. Grades—tech.; pure.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

Chem Commerce, Newark, N J

POTASSIUM XANTHATE

$KS_2COC_2H_5$. Solid. Sp. gr. 1.5576. B.P. 200°C. Sol. alcohol, water. Uses—as reagent in laboratory; soil fumigant; flotation agent. Grades—tech.; C.P.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850

POTASSIUM ZIRCONIUM FLUORIDE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214

PROCAINE BASE

$C_{13}H_{20}O_2N_2$; mol. wt. 236.17. From sc. alcohol it crystallizes with 2 H_2O White, odorless, cryst. powder; slightly bitter taste; applied to the tongue causes transitory benumbing sensation. Melts 59-61°C. Slightly sol. in water. Sol. in alcohol and chloroform.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Lanex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600

PROCAINE BASE (cont'd)

Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Purocaine, Inc, N Y
†Richmond Chem Corp, Staten Is, N Y
†Stanetal Corp, Linden, N J

PROCAINE HYDROCHLORIDE (Aminobenzoyl-diethylaminoethanol Hydrochloride, Ethocaine, Novocaine, Syncaine, Kerocaine)

$C_6H_4NH_2COOCH_2CH_2N(C_2H_5)_2.HCl$. Small, colorless crystals or white crystalline powder. Odorless. M.P. 153-156°C. Sol. water, alcohol; slightly sol. chloroform. Insol. ether. Uses—medicine.

Specify

• PROCAINE HYDROCHLORIDE USP *LEMKE*

a dependable product throughout

- For top performance
- Clear and colorless ampoule solutions
- Physical and chemical uniformity

B. L. LEMKE & CO., INC.

Lodi, New Jersey

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
Lo Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Purocaine, Inc, N Y
†Richmond Chem Corp, Staten Is, N Y

BROMIDES

Inorganic & Organic

PROCAINE HYDROCHLORIDE U.S.P. XIII

PARA AMINO SALICYLIC ACID

SODIUM PARA AMINO SALICYLATE

Philip J. Lo Bue Company

CHEMICALS

230 Park Ave., New York 17, N. Y. MU 9-0060

PROGESTERONE

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Biorganic Labs, Inc, Bklyn, N Y
†Glidden Co, Chicago, Ill

PROPANE

C_3H_8. M.W. 44.06. Colorless gas, density (air = 1), 1.56. F.P.—189.9°C. B.P.—44.5°C. Sol. alcohol, ether; slightly sol. water. Uses—as refrigerant.

A GLENN McCARTHY ENTERPRISE

McCARTHY

PROPANE

BUTANE

GASOLINE

Formaldehyde . . Methanol . . Acetaldehyde

McCarthy Chemical Company

SHELL BUILDING • HOUSTON, TEXAS

PROPANE (cont'd)

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
†McCarthy Chem Co, Shell Bldg, Houston, Tex — Pr 7204
Pan Amer Refg Corp, 122 E 42 St, N Y — Lexington 2-4322
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio
Pittsburgh Thermoline Co, Pittsburgh, Pa
†Union Oil Co of Calif, Los Angeles, Calif

PROPIONALDEHYDE

CH_3CH_2CHO. M.W. 58.1. B.P., 48.8°C.; Sp. gr., 0.8066; F.P., —81°C. Uses—mfr. rubber accelerators and synthetic resins; in propionic acid synthesis; as a disinfectant and preservative.

★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

PROPIONIC ANHYDRIDE

$(C_2H_5CO)_2O$. M.W. 130.14. Colorless liquid; pungent odor. Sp. gr. 1.010 (15°C.) M.P.—45°C.; B.P. 167°C. Sol. alcohol, ether, chloroform, alkalies; insol. water. Uses—esterifying agent for cellulose, fats and oils, etc.; dehydrating medium for nitrations and sulfonations.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

PROPIONYL CHLORIDE

CH_3CH_2COCl. Clear, colorless liq. having a sharp acid odor. Sp. gr. 1.061 at 18¼°/18½°C. Uses—organic synthesis.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

PROPIOPHENONE (Phenyl Ethyl Ketone)

$C_6H_5COCH_2CH_3$. M.W. 134.54. Clear liquid; strong pleasant odor. Uses: mfg. of pharmaceuticals and dyestuffs; as a perfume fixative.

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

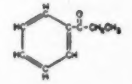
†Trubek Labs, Inc, E Rutherford, N J

KOPPERS

Propiophenone

(phenyl ethyl ketone)

USES: In the production of pharmaceuticals and dyestuffs, and as a perfume fixative.



KOPPERS COMPANY, INC.

CHEMICAL DIVISION

Pittsburgh 19, Pa.

n-PROPYL ACETATE

$C_5H_{12}OOCCH_3$. Clear, colorless liquid having pleasant odor. Sp. gr., 0.897. Flash point, 68°F. Boiling range 96.0-102.0°C. Uses—flavoring, perfumery, solvent, organic synthesis.

Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

n-PROPYL BROMIDE

C_3H_7Br. Colorless liquid. Sp. gr. 1.353. B.P. 70.9°C. Insol. water; sol. alcohol, ether. Uses—organic synthesis, pharmaceuticals. Grades—pure, tech.

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Dow Chem Co, Midland, Mich — Midland 500
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

n-PROPYL CHLORIDE

C_3H_7Cl. M.W. 78.54. Colorless liquid. B.P. 46.4° C. Very slightly sol. in water. Sol. in alcohol, ether, and chloroform. Sp. gr. 0.890 at 20/4° C. Uses—preparation of other propyl compounds.

†Dow Chem Co, Midland, Mich — Midland 500

n-PROPYL GALLATE

Theoretical M.W. 212. Light brown powder. M.P. 144-148° C. Insol. water or alcohol; sol. vegetable oils up to 2%. Use: medicinal.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

n-PROPYL p-HYDROXY BENZOATE

$HOC_6H_4CO_2.CH_2CH_2CH_3$. White, cryst., powd., odorless, practically tasteless, non-toxic. M.P. 97°C. Sol. water at 100°C. approx. 1-325; in water at 20°C. approx. 1-2000; in alcohol at 20°C. 1-2. Uses—as a preservative and anti-oxidant.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

PROPYL IODIDE

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

n-PROPYL IODIDE

C_3H_7Br. Colorless liq. Sp. gr. 1.747. B.P. 102.4°C. Insol. water; sol. alcohol, ether. Uses—organic synthesis, pharmaceuticals. Grades—pure, tech.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

PROPYL OLEATE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700

PROPYL STEARATE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

PROPYLENE (Propene)

C_3H_6. M.W. 42.1. Colorless gas. Sol. in water, alcohol or ether

Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio

PROPYLENE CHLOROHYDRIN (Alcohol, Chlor Isopropyl, Chloropanol)

$CH_3.CHOH.CH_2Cl$. Colorless liquid, faint ethereal odor. Azeotropic water mixture approx. 46% concentration. Sp. gr. 1.1155 at 20/20°C. B.P. 127°C. Weight per gal. approx. 9 lbs. Uses—organic synthesis for the introduction of the hydroxy-propyl group. Grades—tech.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

PROPYLENE DIAMINE

$NH_2CH(CH_3)CH_2NH_2$. M.W. 74.13. Colorless liquid. B.P. 119.7° C. Sol. in water and organic solvents. Sp. gr. 0.872 at 20/20° C. Wt. per gal., 7.8 lbs. at 20° C. Uses—in synthesis of certain medicinals, dyestuffs, rubber accelerators, and other special chemicals.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

PROPYLENE DIBROMIDE (1, 2-Dibromopropane)

$CH_3CHBrCH_2Br$. M.W. 201.91. Colorless liquid. B.P. 141.6° C. Very slightly sol. in water. Sol. in alcohol, ether, and chloroform. Sp. gr. 1.933 at 20/4° C. Uses—preparation pure propylene; special reagent in organic synthesis.

PROPYLENE DIBROMIDE (cont'd)

†Dow Chem Co, Midland, Mich — Midland 500
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005

PROPYLENE DICHLORIDE (1, 2 Dichloropropane)

$CH_3.CHCl.CH_2Cl$. Colorless liquid. Sp. gr. 1.16 (15°C.). B.P. 95.9°C. Weight per gal., 9.6 lbs. (20°C.). Insol. in water. Uses—solvent for oils, fats, waxes, gums and resins; liquid soap, cleaning and scouring compounds; spot removing compounds; extraction; reagent in organic synthesis. Grades—tech.

C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

PROPYLENE GLYCOL (Methyl Ethylene Glycol, Propanediol)

$CH_3.CHOH.CH_2OH$. Colorless liq., practically odorless. Sp. gr. 1.0381 (20°C.). B.P. 188°C. Weight per gal., 8.64 lbs. (20°C.). Completely soluble in water. Uses—solvent, moistening agent; manufacture cosmetics, perfumes, flavoring extracts, pharmaceuticals; reagent organic synthesis having two replaceable hydroxyl groups. Grades—tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
De Bar Inc, 636 11 Av, N Y — Plaza 7-0960
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Dow Chem Co, Midland, Mich — Midland 500
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Newberg, Wm D, Co, Inc, 420 Lexington Av, N Y — Oregon 9-2550
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
Weeks, O J, Co Inc, 15 Hudson St, N Y — Barclay 7-2091
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700
Barada & Page, Inc, Kansas City, Mo — Chem Sales Corp, Buffalo, N Y
Braun Knecht Heimann Co, San Fran, Calif — Moser, George, & Son, Inc, Detroit, Mich

GLYCOLS

DOW

THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products
Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.
See listing ad for other products

PROPYLENE GLYCOL ESTERS

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
†Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
†Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Hardesty, W C, Co, Inc, 41 E 42 St, N Y — Murray Hill 2-1920
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
†Carlisle Chem Wks, Reading, O

PROPYLENE OXIDE

DOW

THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products

Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.

See listing ad for other products

PROPYLENE GLYCOL METHYL ETHER

†Dow Chem Co, Midland, Mich — Midland 500

PROPYLENE GLYCOL PHENYL ETHER

†Dow Chem Co, Midland, Mich — Midland 500

PROPYLENE GLYCOL MONOCOCATE

Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

PROPYLENE GLYCOL STEARATE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
†Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
†Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
†Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Carlisle Chem Wks, Reading, O

PROPYLENE LAURATE

Amber oil, self-emulsifiable in water to form milky-white emulsions. Uses—cosmetics, pharmaceuticals, foodstuffs.

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
†Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
†Carlisle Chem Wks, Reading, O

PROPYLENE OXIDE (Epoxypropane, Propene Oxide)

$CH_3.CH.CH_2O$. M.W. 58.05. Colorless liquid. Sp. gr. 0.831 at 20/20°C. B.P. 35°C. Weight per gal., 6.9 lbs. (20°C.). Soluble in water and usual organic solvents. Uses—solvent nitrocellulose, cellulose acetate, gums, resins; manufacture quick drying cements; mold inhibitor; reagent in organic synthesis. Grades—tech.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
†Dow Chem Co, Midland, Mich — Midland 500

PROTEIN HYDROLYSATES

DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Sheffield Farms Co, Inc, Chemurgic Div, P O Box 630, Norwich, N Y — Norwich 915
Anton-Murray Co, Chicago, Ill
†Glidden Co, Chicago, Ill
†Huron Milling Co, Inc, N Y

Protein Hydrolysates—from Milk

"EDAMIN"—Improved Flavor Hydrolysate from Lactalbumin.

"N-Z-AMINE"—From Casein. Top Quality, Minimum Bitterness.

"HY-CASE" Powder—Acid Hydrolysate with Beef-like Flavor.

Peptones in Bulk and Pound Bottles for Microbiological Media.

SHEFFIELD FARMS COMPANY, INC.
CHEMURGIC DIVISION
Main Office: Norwich, N. Y. Branch Sales Office: 526 W. 57th St., New York 19, N. Y.
Div. of National Dairy Products Corp.

PROTEINS, SOYA BEAN

Proteins derived from the Soya Bean are now available commercially in isolated and non-isolated form. These proteins resemble very closely the characteristics of animal proteins derived from milk and in addition possess many outstanding characteristics of their own. They are widely used in the manufacture of adhesives and are increasingly used for a variety of other applications such as the manufacture of paint, paper sizing and coatings as dispersing and deflocculating agents and as textile sizes.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Glidden Co, Chicago, Ill

PROTEINS, VEGETABLE

Most of the grains and cereal crops contain protein and a number of industrial and edible applications have been developed. The chemical physical and behavior characteristics of these proteins differ so that a general comment is not possible. See also Soya Bean Proteins.

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Glidden Co, Chicago, Ill
Wessel-Duval Co, N Y
†Huron Milling Co, Inc, N Y

PRUSSIAN BLUE (Chinese Blue, Ferric Ferrocyanide, Turnbull's Blue)

$Fe_4(Fe(CN)_6)_3$. Solid, blue, amorp. Decomposes on heating. Sol. acids, alkalies. Uses—mfr. blue paint, blue varnish pigment; blue ink, blue match head compositions, soaps, laundry blue; coloring paper; dyeing fabrics; in fertilizer. Grades—tech.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8550
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Kohnstamm, H. & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
†Western Dry Color Co, Chicago, Ill

PSYLLIUM SEED (Fleaseed, Fleawort)

From Plantago psyllum. Habitat—Southern Europe and Northern Africa. Uses—sizing of paper and silk; printing textiles, etc.; in medicine. Grades—tech.

†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Hathaway Allied Prods, Los Angeles, Calif

ITALIAN
PUMICE STONE

QUARTZ
SILEX
VIENNA LIME

CHARLES B. CHRYSTAL CBC MINERALS, CLAYS, COLORS 1897 NEW YORK

ROUGE
GROUND GLASS
TRIPOLI

CHARLES B. CHRYSTAL CO., INC.
Established 53 Years
57 PARK PLACE NEW YORK 7
PLANT-WAREHOUSE JERSEY CITY

PUMICE STONE (Pumex)

Lava rock. Natural, solid amorp. Sp. gr. 2.3-2.4 (powdered). Uses—mfr. abrasive powds. and compositions, cosmetics, tooth powds., toilet articles, cements, glass, metal polishes, lithographic stones; acid tower filler; substratum for catalysts; filler in paints, varnishes, enamels, and scouring soaps; in printing; ingredient of various compositions of matter for fireproofing, insulating, polishing purposes, etc.; in process engraving; tanning leather; in medicine. Grades—lump; powdered; ground.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg 5-2151
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610

ANCHOR PUMICE STONE

AMERICAN GROUND ITALIAN

Uniform and Correctly graded
Recommended where quality is to be considered

POLISHING MATERIALS

Metal, Wood & Glass Trades

Tripoli — Rotten Stone — Cork Wheels — Rouge — Ground Glass

FELTS

Polishing — Mechanical

K. F. GRIFFITHS & CO., INC.

280 Madison Avenue
New York 16, N. Y.

Pumice Mill-Newark, N. J.
Felt Plant-Brooklyn, N. Y.

MU 3-8350

PUMICE STONE (cont'd)

Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
†Griffiths, K F, & Co, Inc, 280 Madison Av, N Y	Murray Hill 3-8350
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655

Valencia

THE STANDARD OF AMERICAN

Pumice

WHITTAKER, CLARK & DANIELS, INC.

260 West Broadway, New York 13, N. Y.

Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y	Walker 5-5749
Wollen Chem & Supply Co, 126 E Av, Paterson, N J	Lambert 3-3600

Fay-Cole & Co, Inc, Boston, Mass — †La Rue Axtell Pumice Co, Eustis, Neb

PYRETHRUM

Dried powder derived from chrysanthemum flowers and Persian insect flowers. Uses—active ingredient in fly sprays, insecticides, etc. Tariff, pyrethrum or insect flowers, free.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
†Chem Insecticide Corp, 57 13 St, Bklyn, N Y	South 8-7141
Dalton-Cooper Inc, 200 W 34 St, N Y	Longacre 4-2910
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Parker, Herbert H, 2 Bway, N Y	Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Powell, John, & Co Inc, 1 Park Av, N Y	Murray Hill 5-1770
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700

Baker & Gaffney, Phila, Pa — †McLaughlin Gormley King Co, Minneapolis, Minn
Laist, H R, Co, San Fran, Calif — Weinstein, Joseph, Phila, Pa

PYRIDINE

C_5H_5N. M.W. 79.05. Slightly yellow or colorless liq., sharp empyreumatic odor. Sp. gr. 0.988 (15°C.). M.P. —42°C. B.P. 115.3°C. Sol. water, alcohol, ether, benzine, benzol, fatty oils. Uses—mfr. indigo pharmaceuticals, acetyl cellulose, incandescent gas mantles; denaturing alcohol; solvent and extracting medium; purifying intermediates and organic chemicals; solvent for chemicals, paints, varnishes, and rubber cements; assistant in dyeing and printing textiles, laboratory reagent; in medicine. Grades—tech.; C.P.; medicinal

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Firstaline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151

PYRIDINE (cont'd)

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chemstar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687

PYRIDINE

Refined and Crude

PICOLINES

Alpha and Beta-Gamma

SPECIAL TAR BASE FRACTIONS

THE BARRETT DIVISION

ALLIED CHEMICAL & DYE CORPORATION

40 RECTOR ST., NEW YORK 6, N.Y.

Barrett

One of America's Great Basic Businesses

Reg. U. S. Pat. Off.

Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland	
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600

Kruger, L, & Co, Inc, N Y — Steele, Ben P, Co, N Y
†Milwaukee Solvay Coke Co, Milwaukee, Wisc — Tar Residuals, Inc, N Y

U·S·S Pyridine

Refined Two Degree

Available in tank cars or 55-gallon drums

COAL CHEMICAL SALES DIVISION

United States Steel Corporation Subsidiaries

71 Broadway, New York 6, N. Y.

USS

COAL CHEMICALS

UNITED STATES STEEL

2-PYRIDONE

†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†Jorala Prods Co, 894 Whittier St, Bronx, N Y	Dayton 3-1137
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818

PYRIDYL MERCURIC ACETATE

$C_5H_4NHgO_2CCH_3$. M.W. 337.8. White granules. Uses: fungicide for cork and coating compositions.

†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

PYRIDYL MERCURIC CHLORIDE

C_5H_4NHgCl. M.W. 314. White powder. Very slightly sol. water, alcohol, hydrocarbon solvents. Uses: fungicide and bacteriside.

†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

PYRIDYL MERCURIC STEARATE

$C_5H_4NHgO_2C(CH_2)_{16}CH_3$. M.W. 562. White powder. Insol. water, alcohol; sol. hot toluene, mixed cellosolve hydrocarbon solvents. Uses: fungicide and bactericide.

†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

PYRITES (Iron Pyrites, Fool's Gold)

Iron sulfide mineral, FeS_2 usually with small amounts of Cu, As, Ni, Co, and Au. Sp. gr., 4.95-5.17. Hardness, 6.0-6.5. Uses—ore for

Sergeant, E M, Pulp & Chem Co, Inc, N Y

PYROCATECHOL (Ortho-dihydroxybenzene; Pyrocatechinic Acid; Oxyphenic Acid; Catechol; Hydroxphenol; Benzenediol; Pyrocatechin)

$C_6H_4(OH)_2$. M.W. 110.05. Colorless crystals. Sp. gr. 1.344. M.P. 105°C. B.P. 245°C. Sol. in water, alcohol, ether, benzene and chloroform. Uses—antiseptic; photography. Grades—tech.

†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240

Feinberg, B G, N Y

PYROPHYLLITE

$Al_2O_3+SiO_2.H_2O$. Uses—mfr. certain types of ceramic ware; as a filler for hard rubber forms, such as battery boxes; as a diluent in dusting insecticides.

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
†Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670

PYROXYLIN, SCRAP

†Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970

Amer Pyroxylin Corp, Arlington, N J

PYROXYLIN SOLUTIONS (Pyroxylinium, Soluble Gun Cotton, Trinitrocellulose, Lacquer Dope, Collioxylin)

Solution of nitrated cellulose, mainly the tetranitrate. Uses—mfr. moulded plastics. See also Collodion. Grades—U.S.P.; tech.

†Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn	Stamford 3-2171
†Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420

PYRUVIC ALDEHYDE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y	Freeport 9-2447

QUARTZ

Crystalline form of Silica, SiO2. Sp. gr., 2.59-2.66. Hardness 7. Uses—in production of glass, colors and pigments, rubber, soap and polishing compounds, ceramics, cements, enamels, leather and tanning, building stone, tower packing and graining lithographic plates.

Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670

†Industrial Minerals & Chem Co, Berkeley, Calif — New England Quartz Co of N Y, N Y — Mfrs Mining Co, Seattle, Wash

QUATERNARY AMMONIUM COMPOUNDS

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500

QUATERNARY AMMONIUM CHLORIDES

The ARQUADS are Armour's alkyl trimethyl ammonium chloride chemicals—ranging from water-soluble to oil-soluble.

The ARQUADS are available in commercial quantities for use in high potency germicides, fungicides, disinfectants, ore flotation reagents, cationic emulsifiers and detergents, textile softeners, water-treating chemicals, alkaline cleaning compounds, anti-static polishes for plastics, chemical synthesis.

For descriptive bulletins and samples, write:

ARMOUR

ARMOUR *Chemical* DIVISION
1355 W. 31st Street, Chicago 9, Illinois



Onyx Suggests...
ONYX QUATERNARIES

- **Onyxide** (Alkenyl dimethyl ethyl ammonium bromide) as an algaecide.
- **BTC** (Alkyl dimethyl benzyl ammonium chloride) as a general germicide, disinfectant and deodorant.
- **Isothan Q15** (Lauryl isoquinolinium bromide) as a fungicide.

...and many other cationic surface-active quaternary halides of specific values.

*Trade Mark Reg. U.S. Pat. Off.

For Export: Onyx International, Jersey City 2, N. J.

ONYX OIL & CHEMICAL COMPANY
JERSEY CITY 2, N. J.
CHICAGO • BOSTON • CHARLOTTE • ATLANTA

onyx CHEMICALS FOR INDUSTRY

QUATERNARY AMMONIUM COMPOUNDS (cont'd)

Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
Michigan Chem Corp, St, Louis, Michigan	41
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1838
†Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Sterwin Chems, Inc, 1450 Bway, N Y	
†Winthrop-Stearns Inc, 1450 Bway, N Y	La 4-6400
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

Ulrich Chem Co, Indianapolis, Ind

CETYL DIMETHYL BENZYL AMMONIUM CHLORIDE

A Tasteless Quaternary Ammonium Germicide

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SPECIAL CHEMICALS DIVISION

Winthrop-Stearns INC.

1450 BROADWAY, NEW YORK 18, N. Y.

QUEBRACHO EXTRACT

Extract from wood of Aspidosperma quebracho blanca. Uses—mordant and color in dyeing and printing fabrics; in tanning leather. Grades—55-57% liq. (ordinary, bleaching); 65% solid (ordinary clarified).

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Amer Dyewood Co, 22 E 40 St, N Y	Murray Hill 3-5720
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bernard Color & Chem Corp, 335 Hudson St, N Y	Watkins 4-5460
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif	Kimball 2214
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473

†Barada & Page, Inc, Kansas City, Mo — †Milwhite Co, Houston, Tex
Heap, F J, & Son, Inc, Boston, Mass — †Trask, Arthur C, Co, Chicago, Ill
Meves & Gregg, Phila, Pa

QUERCITRON BARK

Bark of Quercus coccinea var. tinctoria. Uses—mfr. Quercitron extract; mordant in dyeing and printing textiles; in tanning leather. Grades—rough; ground.

†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720

QUERCITRON EXTRACT (Quercetin)

$C_{15}H_{10}O_7$. Extract from bark of Quercus coccinea var. tinctoria. Uses—mordant in dyeing and printing leather; in tanning leather. Grades—liq. (51); powdered; orange and lemon shades.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Amer Dyewood Co, 22 E 40 St, N Y	Murray Hill 3-5720
Bernard Color & Chem Corp, 335 Hudson St, N Y	Watkins 4-5460

QUINALDINE

$C_{10}H_9N$. M.W. 143.18. Spec. gr. 1.056 at 25°/4°C. Ref. index 1.6072 at 25°C. B.P. 247.0°C. (760 mm.). M.P. -2.0°C. Sol. in water 0.7% at 25°C. Basicity, ml. N HCl/Gm., 6.99. Odor, sharp, quinoline-like. Color, water-white, discolors on standing. Chemical properties: quinaldine resembles quinoline in chemical properties except for the reactivity of the methyl group which enters into condensation reactions or halogen substitution. Uses—in the preparation of dyes, pharmaceuticals, and fine organic chemicals.

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

QUINCE SEED

Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
†Dallal, D S, & Co, 261 5 Av, N Y — Murray Hill 3-8646
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y — Hanover 2-3750
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

Howe, W Russell, N Y — Smith Crude Drug & Spice Corp, N Y

QUINHYDRONE

$C_6H_4(OH_2)C_6H_4O_2$. Green crystals with metallic luster. M.P. 169-170°C. Very slightly sol. water, sol. alcohol, ether. Uses—determination of hydrogen-ion concentration with quinhydrone electrode. Grades—C.P. Cont.—bottles, fiber drums.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

QUINIDINE

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

Gillies & Loughlin, Los Angeles, Calif

QUINIDINE SULFATE

$(C_{20}H_{24}O_2N_2)_2.H_2SO_4.2H_2O$. M.W. 782.81. White, very bitter, odorless fine crystals. Sol. water, alcohol, methanol, chloroform. Use: medicine.

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

QUININE (Alkaloid)

$C_{20}H_{24}O_2N_2.3H_2O$. M.W. 378.25. White, odorless, bitter crystals or powder derived from chinchona bark. Uses—medicine.

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Dereume, Raymond, Punxsutawney, Pa — Fidelity Trading Co, Inc, San Fran, Calif

QUININE BISULFATE

$C_{20}H_{24}O_2N_2.H_2SO_4.7H_2O$. M.W. 548.39. White, odorless very bitter crystals or crystalline powder; effluorescent; darkens on exposure to light. Use: medicinal.

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Dereume, Raymond, Punxsutawney, Pa

QUININE HYDROCHLORIDE (Quinine Hydrochorate, or Muriate)

$C_{20}H_{24}N_2O_2.HCl+2H_2O$. M.W. 396.91. White, silky, odorless, bitter needles. Sol. water, alcohol. Uses—analytical reagent. Medicine.

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960

QUININE

Quinine Hydrochloride

Quinine Sulfate

Cinchonidine

Cinchonine

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TOTAQUINE

American Quinine Co.

15 William Street

New York 5, N. Y.

HAnover 2-7983

QUININE HYDROCHLORIDE (cont'd)

European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Dereume, Raymond, Punxsutawney, Pa

QUININE SULFATE

$(C_{20}H_{24}N_2O_2)_2.H_2SO_4 + 7H_2O$. M.W. 872.80. White crystals. Uses—in medicine; brewing.

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Dereume, Raymond, Punxsutawney, Pa

QUINIZARINE (Dihydroxyanthraquinone)

$C_{14}H_8O_4$. M.W. 240.13. A colorless solid. M.P. 280°C.; insol. water, sol. alcohol, ether. Uses—intermediate for the mfr. of dyestuffs.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Carwin Co, Stiles Lane, North Haven, Conn — New Haven 2-2161
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
†Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

QUINOLINE (Benzazine, Chinoline)

C_9H_7N. M.W. 129.06. Sp. gr. 1.093. Colorless to yellow liquid. B.P. 237.7°C. Sol. alcohol, ether. Uses—organic synthesis, medicine. Grades—C.P.; tech.

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686

IT'S KOPPERS FOR REFINED QUINOLINE



• Distillation range 95% (2% to 97%) with 2°C. • between 235-238°C.
Not more than 0.3% water • Not more than 2.0% oil • Color not darker than C-2 • Sp. Gr. at 15.5°C. —1.092 to 1.098
Koppers supplies isoquinoline, quinaldines, and high-boiling Q.S.R. bases for inhibitors.

KOPPERS COMPANY, INC.
Tar Products Division, Pittsburgh 19, Pa.

QUINONE (Benzoquinone, Chinone, Paradioxybenzene, Benzenone, Dihydrodiketo-Benzone)

$C_6H_4O_2$. Yellow cryst., irritating odor. Sp. gr. 1.307. M.P. 115.7°C. Sol. alcohol, ether, alkalies. Uses—mfr. hydroquinone Grades—tech.

City Chem Corp, 132 W 22 St, N Y — Watkins 9 2723
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

BENZOQUINONE

CHROMOTROPIC ACID

QUINIZARINE

▼

ZINSSER & COMPANY, Inc.

Hastings-on-Hudson, N. Y.

Established 1897

LINDSAY LIGHT & CHEMICAL COMPANY

Established in 1902

West Chicago, Illinois

Ammonium Metavanadate
Cerium Salts
Didymium Salts
Hydrofluoric Acid
Lanthanum Salts
Neodymium Salts
Rare Earth Salts
Sodium Acid Fluoride
Thorium Salts
Titanium Potassium Oxalate

RARE EARTH PRODUCTS

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7990
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Mackay, A D, Inc, N Y — †New Process Metals Corp, Newark, N J

Animal Extractives
Hormones
Metals, Rare Metals & Earths
Metal Hydrides
Organic Chemicals
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Proteins—Amino Acids
Technical Use Chemicals for Industrial Processing Uses
Enzymes

HERMAN MEYER DRUG CO.
116-23 Jamaica Avenue, Richmond Hill, N. Y.
Telephones: Virginia 9-6176, 6185
Cables: Estrone, New York

RARE METALS

Metals whose atomic weights lie between those of barium and tantalum. Includes lanthanum, cerium, praseodymium, neo-dymium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, neo-ytterbium, lutecium, ceitium, scandium, and yttrium.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Chem Commerce, Newark, N J — †New Process Metals Corp, Newark, N J
Mackay, A D, Inc, N Y

RARE METAL SALTS

Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
†Lindsay Light & Chem Co, W Chicago, Ill	W Chicago 760
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651

†New Process Metals Corp, Newark, N J Var-Lac-Old Chem Co, N Y

INDUSTRIAL AND REAGENT CHEMICALS

RARE METAL COMPOUNDS

of

Cesium
Gallium
Didymium
Lanthanum
Neodymium
Praseodymium
Indium
Yttrium
Rhenium
Rubidium
Germanium
Gadolinium

CITY CHEMICAL CORP.

132 W. 22nd St. New York 11, N.Y. WA 9-2723

REFRIGERANTS

Various gases which circulated in the coils of refrigerating, ice-making, and air-conditioning machinery, compressed or liquefied under pressure, and then allowed to expand, absorb heat from the surrounding medium. More commonly used refrigerants are: ammonia, carbon dioxide, sulfur dioxide, methyl chloride, certain hydrocarbons such as butane, isobutane, propane and ethane, dichlorodifluoromethane, trichloromonofluoromethane, and dichlorotetrafluoroethane, etc. See also Gases Refrigerating.

DUPONT

Reg. U.S. Pat. Off.

Methyl Chloride 99.5%

In 70-, 100-, 145-, 300-pound cylinders

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METHYLENE CHLORIDE

Refrigerant grade of highest purity

E. I. DU PONT DE NEMOURS & CO. (INC.)

ELECTROCHEMICALS DEPARTMENT

WILMINGTON DELAWARE

†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
†Dow Chem Co, Midland, Mich	Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
†Exton Chems Inc, 3100 E 26 St, Los Angeles, Calif	Angelus 9-8183
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010

Pure Carbonic Co, N Y

RESINS—see also Chemical Specialties Section

RESINS, ACRYLIC

Synthetic plastics produced from acrylic acid esters with outstanding characteristics of colorless transparency, excellent adhesion to most surfaces, chemical resistance, and great elasticity and in physical appearance range from soft, sticky semi-liquids to hard thermoplastic solids. Solutions of acrylic resins are used for coatings, adhesives, electrical insulation, impregnation, and for the manufacture of laminated glass.

†Amer Polymer Corp, 101 Foster St, Peabody, Mass	Peabody 2222
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept),	
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa	Michigan 4-3460
Peters Chem Mfg Co, 3623 Lake St, Melrose Park, Ill	Melrose Park 643
†Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860

Hueston, C L, Detroit, Mich

RESINS, ALKYD

Condensation products of a polybasic acid and a polyhydric alcohol:

THE SANTOLITES

Condensation products of aromatic sulfonamides with formaldehyde

CHARACTERISTICS OF SANTOLITES

	MS—80% SOLN.	MHP
Color and form	Light-colored viscous liquids	Hard, brittle, nearly colorless resin
Specific Gravity at 25° C.	1.2098 (Approx.) ° C.	1.350 (Approx.)
Refractive Index	1.545 at 25° C. (Approx.)	1.4295 at 25° C. (25% in normal Butyl Acetate) (Approx.)
Solubility	Soluble in practically all organic solvents except petroleum hydrocarbons and varnish oils.	
Retentivity in Cellulose Nitrate*	Over 100	Over 100
Retentivity in Cellulose Acetate	Over 100	Over 100
Acid Number	Neutral	Neutral

Santolite MS—80% Solution—Supplied at 80% solids in solution with 20% normal Butyl Acetate also as 100% solids.

*Retentivity is given in parts per 100 parts by weight of the Cellulose Nitrate or Cellulose Acetate.

GENERAL INFORMATION

Santolite MHP: An aryl sulfonamide-formaldehyde resin well adapted to specialty lacquers, including manicure lacquer, fabric coatings, molding compositions, etc Exceptional features are ease with which it can be worked into practically every formula using a cellulose ester and wide variation of properties obtained by its use. High degree of solubility makes very concentrated solutions possible; extreme compatibility with plasticizers and cellulose esters removes much of danger of blushing, sweating, separation. Can be used in spraying, dipping or brushing lacquers to make clear, colorless, odorless coatings of good gloss and adhesion. Does not materially increase viscosity, permits building up high solids content in lacquer.

Santolite MS—80% Solution (in Butyl Acetate). Like all Santolites, MS is compatible with both nitro-cellulose and cellulose acetate. Being solvent for both, can be used in any proportion. Forms brittle compositions with both, but addition of plasticizer makes combinations permanently flexible. Excellent for water-white lacquers not exposed to extreme weather conditions, its high gloss, lack of color being unusual in the resin field. Santolite MS is also worthy of consideration in manicure lacquer.

MONSANTO

CHEMICALS—PLASTICS

For further information, write MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, St. Louis 4, Missouri.

Santolite: Reg. U. S. Pat. Off.

SERVING INDUSTRY...WHICH SERVES MANKIND

RESINS, ALKYD (cont'd)

find wide application in the formulation of paints, varnishes, lacquers, etc.

†Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill	Bishop 2-1374
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†Hercules Powder Co, 978 Market St, Wilmington, Del	
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454

Water Clear

FATTY ACIDS

FOR

use in the manufacture of uniform specification

Alkyd Resins

WOBURN CHEMICAL CORP. (N. J.)
KEARNY, N. J.
1200 HARRISON AVENUE • HARRISON POST OFFICE
Woburn Degreasing Co. Woburn, Mass. — Woburn Chemicals, Ltd. Toronto, Canada

†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich	Jordan 4-6500
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9660
†Sherwin-Williams Co, Pigment Chem & Color Dir, 295 Madison Av, N Y	Lexington 2-5806
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
†Woburn Chem Corp, †Harrison, N J	Kearny 2-3300

†Falk & Co, Pittsburgh, Pa
†France, Campbell & Darling, Inc, Kenilworth, N J
Frey & Co, N Y
†Gen Electric Co, Pittsfield, Mass
†Industrial Resin Corp, Whippany, N J
Knapp, Harry G, St Louis, Mo
Moser, George, & Son, Inc, Detroit, Mich
†Osborn, C J, Co, N Y
Osgood, D H, Co, Detroit, Mich
Smead & Small, Inc, Cleveland, O
†Specialty Resins Co, Lynwood, Calif

AROMATIC TAR

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Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
†Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
†Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

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Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
†Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903

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†Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
†Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600

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Pan Amer Refg Corp, 122 E 42 St, N Y — Lexington 2-4322
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†Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Hercules Powder Co, 978 Market St, Wilmington, Del

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†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
†Falk & Co, Pittsburgh, Pa
†France, Campbell & Darling, Inc, Kenilworth, N J
†Industrial Resin Corp, Whippany, N J
†Osborn, C J, Co, N Y

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†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

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Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
†RBH Dispersions, Div of Interchem Corp, 1-5 Factory Lane, Bound Brook, N J — Bound Brook 9-0700
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
†France, Campbell & Darling, Inc, Kenilworth, N J
Houghton, Philip A, Inc, Boston, Mass

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Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
†Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
†Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600

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Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
†Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
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†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
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†Acme Resin Corp, Forest Park, Ill
†Borden Co, N Y
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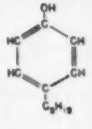
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Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
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†Hercules Powder Co, 978 Market St, Wilmington, Del
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
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†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-3121
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
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Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
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Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
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†Hercules Powder Co, 978 Market St, Wilmington, Del
†National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473

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Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
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†Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600
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†Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
†Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
†Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
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†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
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†Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
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†National Casein Sales, 601-619 W 80 St, Chicago, Ill	Vincennes 6-7300
†Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
†Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
†RBH Dispersions, Div of Interchem Corp, 1-5 Factory Lane, Bound Brook, N J	Bound Brook 9-0700
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†Acme Resin Corp, Forest Park, Ill	Irvington Varnish & Insulator Co, Irvington, N J
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Burtonite Co, Nutley, N J	†Osborn, C J, Co, N Y
†Falk & Co, Pittsburgh, Pa	†Specialty Resins Co, Lynwood, Calif
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†Industrial Resin Corp, Whippany, N J — Zimmerman, C L, Co, Cincinnati, O

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Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†National Casein Sales, 601-619 W 80 St, Chicago, Ill — Vincennes 6-7300
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

†Borden Co, N Y
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†Watson-Park Co, Boston, Mass

RESINS, VINYL

Thermoplastic resins made by the polymerization of vinyl acetate, vinyl chloride, and combinations of the two, possessing the characteristics of being tasteless, odorless, non-flammable, and with the exception of the polyvinyl acetate group not acted upon by acids, alkalies, alcohol, water, oil, greases, etc. Vinyl resins find wide application in lining metal containers, for caps, coating cement coatings, molding phonograph records, dentures, impregnating fabrics, coating papers, and for molding miscellaneous items. Available in sheets, rods, tubes, and powder for molding.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Antara Prods, Gen! Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
†Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243

RESINS, WATER SOLUBLE

†Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
†Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
†Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
†Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
†National Casein Sales, 601-619 W 80 St, Chicago, Ill — Vincennes 6-7300
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243

Burtonite Co, Nutley, N J

RESORCINOL (Resorcin, Metadihydroxybenzene, Benzenediol)

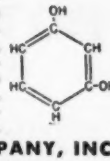
$C_6H_4(OH)_2$. M.W. 110.05. Almost colorless cryst. Sp. gr. 1.285 (15°C.). M.P. 110°C. B.P. 276°C. Sol. water, alcohol, benzene, amyl alcohol. Uses—mfr. phthalein and azo dyestuffs, fluorescein colors, pharmaceuticals, trinitroresorcinol, eosin, hair remedies; camphor substitute in celluloid; laboratory reagent; textile dyeing and printing; in medicine. Grades—U.S.P.; powd.; commercial; crude; resublimed.

Koppers Resorcinol

(meta-dihydroxybenzene)

Grades Available: Technical and U.S.P.

USES: In the preparation of low-pressure, room-temperature setting resorcinol-formaldehyde resin-adhesives; to modify phenol-formaldehyde, urea-formaldehyde, casein-formaldehyde and analogous resins; as a chemical intermediate for dyestuffs, medicinals, textile and leather chemicals, rubber tackifiers, and explosives.



KOPPERS COMPANY, INC.
CHEMICAL DIVISION
Pittsburgh 19, Pa.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240

RESORCINOL (cont'd)

†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Akron Chem Co, Akron, O
†Borden Co, N Y
Feinberg, B G, N Y

RESORCINOL MONOACETATE

$(OH)C_6H_4(CH_3CO_2)$. Thick, oily, yellow liq. B.P. 150-153°/10 mm. Sol. acetone, alcohol, benzene. Uses—in medicine and cosmetics. Grades—N.N.R.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

Rerson, R F, Co, N Y

RHENIUM (Metal)

Re. At.W. 186.31. Dark heavy metal unaffected by moist air. M.P. above 3,100°C. May be made in powd. form by reduction of the sulfide or oxide. Has marked catalytic properties. Uses—catalyst in hydrogenation of ethylene to ethane; mfr. of electric wires.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

Mackay, A D, Inc, N Y
Var-Lac-Old Chem Co, N Y

RHODINOL

$C_{10}H_{17}OH$. M.W. 156.1. Oily liq. with rose odor. Uses—perfumery.

†Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-3570
†Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

RHODIUM (Metal)

Rh. M.W. 102.91. A metal of the platinum group with atomic number 45. Forms a grayish-white ductile metal. Density—12.44; M.P. 1920°C.; insol. water and acids. Occurs in platinum ores. Uses—in alloys for thermo-elements and other measuring devices.

Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232

†Amer Metal Co, Ltd, N Y
Baker & Co, Inc, Newark, N J
†Bishop, J, & Co Platinum Wks, Malvern, Pa
Malvern, Pa
Mackay, A D, Inc, N Y

RIBOFLAVIN—see Vitamin B_2

ROOTS, HERBS, BARK, ETC., CRUDE

†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mer Corp, 318 W 46 St, N Y — Judson 6-0900
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200

Murbas Trading Co, N Y
Smith Crude Drug & Spice Corp, N Y

ROSIN, GUM (Colophony, Pine Resin, Abietic Anhydride, Yellow Resin, Resina)

Natural, solid amorp. From distillation of crude turpentine. Various colors. Sp. gr. 1.08. M.P. 100—140°C. Uses—mfr. soaps, varnish and paint driers, spirit varnishes, floor waxes and other wax compositions, waterproofing and roofing compositions, leather cements, dressings, shoe polishes, soldering flux, high speed machine lubricants, sealing and shoemaker's waxes, oil-cloth, linoleum, dry batteries and for various electrical manufacturing purposes, printing inks, rosin oil, sweeping compounds, cements, rubber substitutes, axle greases, brewer's pitch, dusting molds, foundries, ointments, plasters, artificial amber, pharmaceutical products; adulterating other resins; sizing paper; hardening steel; engraving and lithography; waterproofing boxboard; filler for abrasive shells; cementing knife handles, etc.; on violin bows, etc.; in textiles; in medicine. Grades—as to color (quoted on basis of 280 lb. gross).

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610

GALEX

GALEX is a newly developed Resin, stable to oxidation, and rendered much less susceptible to crystallization when mixed with various solvents. Send for data.

NATIONAL ROSIN OIL PRODUCTS, Inc.
R. K. O. Building, Radio City, New York 20, N. Y.
Branches in Principal Cities
Pioneer Manufacturer and Refiner of Rosin Oils and Pine Pitch

ROSIN, GUM (cont'd)

Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Export Finders Bureau, 8 Bridge St, N Y — Bowling Green 9-2912
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Cole & De Graf, San Fran, Calif — West Co, Chelsea, Mass

ROSIN LIQUID—see Oil, Tall

ROSIN, NON-OXIDIZING

Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
†National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473

Schibley & Ossmann, Inc, Cleveland, O — Wilson, T C, Co, San Fran, Calif

ROSIN, POWDERED

Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Heer Corp, 318 W 46 St, N Y — Judson 6-0900
†Newport Industries Inc, 230 Park Av, N Y — Murray Hill 6-7305
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201
Zephar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

†Murray-Williams Color & Chem Co, Maplewood, N J — †Taylor, Lowenstein & Co, Mobile, Ala

ROSIN, WOOD

Natural, solid amorph. By extraction from long leaf pine wood. Grades—FF, I, K, M, N, WG, and WW. Sp. gr. approx. 1.08. M.P. (drop method) 75°-85°C. M.P. (ring and ball method) 70°-80°C. Uses—same as gum rosin.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
†Hercules Powder Co, 978 Market St, Wilmington, Del
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
†Newport Industries Inc, 230 Park Av, N Y — Murray Hill 6-7305
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

HERCULES

WOOD ROSINS

Pale grades for soap, paints, and varnishes, synthetic resins and many other uses. Clean. Free from foreign matter. Controlled uniformity.

GM50-3

HERCULES POWDER COMPANY
INCORPORATED
Wilmington, Delaware

ROSIN, WOOD (cont'd)

Cole & De Graf, San Fran, Calif
Commercial Chems, Inc, Buffalo, N Y
Drouillard, J C, Co, Cleveland, O
Gillies & Loughlin, Los Angeles, Calif
Hinz, J H, Co, Cleveland, O
Hird & Connor, Inc, Boston, Mass
Krekel Goetz Sales & Supply Co, Grand Rapids, Mich
Moser, George, & Son, Inc, Detroit, Mich
Rimco Trading Corp, N Y
Schibley & Ossmann, Inc, Cleveland, O
†Southern Naval Stores Div, Leach Bros, Columbia, Miss
Taylor, Lowenstein & Co, Mobile, Ala
Timberlake, Frederick H, Phila, Pa
West Co, Chelsea, Mass
Zimmerman, C L, Co, Cincinnati, O

WOOD ROSINS

Superior rosins shipped in most up-to-date packages for absolute cleanliness with no loss of weight.

Also manufacturers of Gloss Oils, Newport Steam Distilled Wood Turpentine and Pine Oils.

NEWPORT INDUSTRIES, Inc.
230 PARK AVENUE — NEW YORK 17, N. Y.

ROSINS, LIMED

†Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
†Hercules Powder Co, 978 Market St, Wilmington, Del

†Glidden Co, Jacksonville, Fla
Hird & Connor, Inc, Boston, Mass
Hueston, C L, Detroit, Mich
Scheel, Wm H, Inc, Bklyn, N Y
Schibley & Ossmann, Inc, Cleveland, O
†Southern Naval Stores Div, Leach Bros, Columbia, Miss
Wilson, T C, Co, San Fran, Calif

ROTENONE

$C_{23}H_{22}O_6$. M.W. 394.15. Colorless, odorless, crystalline constituent of certain tropical fish-poison plants. Poisonous to insects but not to humans. M.P. 163°C. Sp. gr. 1.27 gr. per cc. (20°C.). Sol. in chloroform, less sol. in ethylene dichloride, trichlorethylene, chlorobenzene, ethylene, chlorohydrin, benzene, acetone and toluene in order named. Made in commercial quantities largely from derris root (British or Dutch East Indies). Root usually packed in 200 lb. bags. Extracted with carbon tetrachloride. Purity improved by recrystallization from alcohol. Uses—in commercial flea powders, fly sprays, greenhouse and horticultural sprays. Grades—tech.; C.P.

Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Powell, John, & Co Inc, 1 Park Av, N Y — Murray Hill 3-1770
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

†Derris, Inc, N Y
Laist, H R, Co, San Fran, Calif
†Miller, Prods Co, Portland, Ore

ROTENONE

BARBASCO

DERRIS

CUBE

American Quinine Co.

15 William Street, New York 5, N. Y.
HAnover 2-7983

ROTTEN STONE (Terra Cariosa)

Ash-brown, natural, solid amorp. Uses—mfr. polishing compositions, abraisives; filtering oils; general filtering medium.

Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412

ROTTEN STONE (cont'd)

Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670

Fay-Cole & Co, Inc, Boston, Mass
†Keystone Filler & Mfg Co, Muncy, Pa
†Murray-Williams Color & Chem Co, Maplewood, N J
†Penn Paint & Filler Co, Antes Fort, Pa

RUBIDIUM (Metal)

Silvery-white metal; easily oxidized in air, therefore kept immersed in naptha, kerosene. Sp. gr. 1.532; m.p. 39°C; b.p. 696°C. Sol. acids and alcohol; decomposes water. Use—produce rubidium salts. Grade—technical.

Chemstar Inc, 40 Exchange Pl, N Y — Hanover 2-0564
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

Mackay, A D, Inc, N Y
Var-Lac-Old Chem Co, N Y

RUBIDIUM SALTS

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

Delton Prods Corp, N Y
Mackay, A D, Inc, N Y

RUTHENIUM (Metal)

Ru. Silver-like, non-ductile metal of the platinum group. Density, 12.06, Sp. gr. 12.2; m.p. 2,450°C; Brinell Hardness 220 (cast). Sol.—attacked by fused alkalis; insol. acids, aqua regia. Uses—hardener for platinum and palladium in jewelry, electrical contact, etc., alloys.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232

Baker & Co, Inc, Newark, N J

RUTILE

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

†Linde Air Prods Co, N Y
†Orefraction, Inc, Pittsburgh, Pa

RUTIN (3-5-7-3-4-Pentahydroxyflavone-3-rutinoside)

$C_{27}H_{30}O_{16}\cdot 3H_2O$. M.W. 664. Very fine, yellow crystalline material. Uses: in mfg. of tablets for the drug trade.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Desoto Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Rosenthal-Barcow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Norco Prods Co, Phila, Pa

PHARMACEUTICALS DRUGS

SACCHARIN U.S.P.

ORTHO-TOLUENESULFONAMIDE

DULCIN • RUTIN

BRUCINE

INTERMEDIATES

BENDIX CHEMICAL CORPORATION

422 LEXINGTON AVE., N.Y. 17, N.Y. MUrray Hill: 3-3202

SACCHARINE

$C_6H_4SO_2CONH$. White crystalline powd. M.P. 222°-228°C. Sol. alcohol, benzine, ethyl acetate, slightly water. Uses—because of sweetness used as a sugar substitute. Grades—commercial; U.S.P.; C.P.

Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960

SACCHARIN MONSANTO

Specifications, U.S.P. Grade: White powder; assay 98% min.; m.p. 227.0% C. min.; loss on drying 0.50% max., solubility in 10% Na_2CO_3 (1:5) complete.

Specifications, Saccharin, Sodium, U.S.P.: White crystals or powder; solubility in water (1:3), complete. Loss on drying at 125° C.: crystals — 14.35% max.; powder — 5.8% max. Free sample, 1 oz.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY...WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

SACCHARINE (cont'd)

DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2560
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8960
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Anton-Murray Co, Chicago, Ill
Cohen, Harry, Atlanta, Ga
Legion Export & Import Co, Inc, N Y

SAFFRON, AMERICAN (Carthamus, Safflower, Bastard Saffron, False Saffron)

Dried flowers of Carthamus Tinctorius. Habitat—India, Egypt, Levant, cultivated in America. Uses—coloring agent for foods and confections, as laxative, as medicinal tea (diagnose measles). Grade—tech. (Carthamus Tinctorius).

Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

SAFFRON, SPANISH (African Saffron, French Saffron, Crocus)

Dried stigmas of flowers of Crocus Sativus. Habitat—Southern Europe, Asia, France, Spain, cultivated in America. Uses—As coloring and flavoring agent, as medicinal tea (diagnose measles). Grades—tech., N.F. Cont.—boxes.

Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

Lyon, Julian W, N Y
Weinstein, Joseph, Phila, Pa

SAFROL

Odorous constituent of oils sassafras, camphor-tree, and other oils. Colorless or slightly yellowish liq. Sp. gr. 1.108 (15°C.). B.P.

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SAFROL (cont'd)

233°C. Solidifies 20°C. Sol. alcohol, chloroform, ether. Uses—denaturing fats in soap making; in perfumery and medicine.

†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

Silber, Hegner & Co, Inc, N Y

SAGO FLOUR

Flour from sago plant, Metroxylon laeve. White, amorp. powd. Swells in water. Uses—mfr. baked products, confectionery, candies, food preparations, vegetarian foods, curry powd., cocoa, sago starch, glues, pastes, glucose; for culinary purposes; sizing textiles and cellulose fibres. Grades—tech.; edible.

Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800
Wah Chang Corp, 233 Bway, N Y — Cortlandt 7-0887

Internatio-Rotterdam, Inc, N Y

SALICIN

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

SALICYLALDEHYDE (Salicylic Aldehyde, Ortho-oxybenzaldehyde, Salicylal)

o—$C_6H_4OH.CHO$. M.W. 122.0. Dark-red oil. Sp. gr. 1.1 at 20/4°C. Miscible with alcohol, ether, and benzene, slightly sol. water. Uses—synthesis of organic derivatives; as a reagent in analytical chemistry.

†Dow Chem Co, Midland, Mich — Midland 500
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

SALICYLAMIDE

$C_6H_4(OH)CONH_2$. M. W. 137. White crystalline solid. M. P. 139°C. Slightly soluble in cold water, soluble in hot water, weakly basic solutions, and most organic solvents. In addition to being mildly antiseptic, it is a general anti-mildew and anti-fungus reagent, as is also its mercuration product. Mild narcotic action is also exhibited. Uses are suggested in externally applied, mildly antiseptic and fungicidal preparations of the nature of soaps, salves, oils, powders, lotions and tonics.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Dow Chem Co, Midland, Mich — Midland 500
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

SALIGENIN (Salicyl Alcohol; Orthohydroxybenzyl Alcohol; 1, 2 Phenolmethylol)

$OHC_6H_4CH_2OH$. M.W. 124.10. Uses—medicinal.

†Amer Cyanamid Co. Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Hexagon Labs, Inc, 3536 Pearlree Av, Bronx, N Y — Fairbanks 4-7550
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

SALOL (Phenyl Salicylate)

$OHC_6H_4CO_2C_6H_5$. White cryst. powd., with faint aromatic odor. Sp. gr. 1.2614. B.P. 172°-173°C. M.P. 41°-43°C. Sol. alcohol, ether, benzine, slightly in water. Uses—as a preservative; in medicine.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Dow Chem Co, Midland, Mich — Midland 500
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

SAL SODA—see Sodium Carbonate

SALT CAKE—see SODIUM SULFATE

SAND, FOUNDRY MOLDING

★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943
†Porter Warner Industries, Inc, Chattanooga, Tenn
†Wedron Silica Co, Chicago, Ill

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Sand of exceptionally high degree of purity and particle size, with low iron content present either as fine metallic rubbings from grinding and handling, as the rusty particles resulting from exposure of these iron rubbings, as any mineral iron (hematite, magnetite, limonite, ilmenite), or as silicate minerals in which iron is present as a constituent (garnet or mica). Specifications emphasize particularly total iron content, expressed for convenience and accuracy in terms of Fe_2O_3. Other impurities are important, in general, only because their presence reduces the available quantity of silica itself. Permissible iron content depends upon the character or rather the "color," of the glass to be produced. Sand generally is defined in A.S.T.M. C58-28 as "The fine granular material (usually less than ¼ in. in diameter) resulting from the natural disintegration of rock, or from the crushing of friable sandstone rocks." See also Silica.

†Wedron Silica Co, Chicago, Ill

SANDALWOOD (Santalum Album)

Wood of Pterocarpus santalinum. Habitat—Madagascar and Indo-China. U.S.P. Also Santalum album. Habitat—British India and Eastern Java. Uses—mfr. perfume preparations, toilet articles, cosmetics; dyeing textiles; paint and varnish color; coloring food; extracting sandalwood oil; as fumigant; in medicine. Grades—whole; chips; ground (Santalum alum).

†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
†Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

SAPONIN

$C_{32}H_{54}O_{18}$. White, amorp. powd., disagreeable odor. Sol. water. Uses—mfr. soap compositions, fire extinguishers, tooth powds.; as detergent; emulsifying fats and oils; foam producer in beverages; soap substitute; textile size. Grades—tech. powd. ex quillaja bark; ex root of Saponaria Officinalis; crude; purified; highest purity. Cont.—kegs (100 lbs.); boxes (25, 50 lbs.); cans (1, 5, 10 lbs.); bottles (1, 5 lbs.).

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
†Lemke, B L, & Co Inc, 199 Main St, Lodi N J — Prescott 7-5805
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Berghausen, E, Chem Co, Cincinnati, O — Enco Chem Corp, N Y

SAW DUST

Hard or soft wood, kiln-dried, air dried, or green, grated to mesh specifications. Uses—drying, burnishing, as inert filler. Grade—depends upon mesh specifications.

†Composition Materials Co, Inc, 28 W 44 St, N Y — Bryant 9-3277
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901

SCHAEFFER'S SALT

$C_{10}H_6(OH)(SO_3Na)$. Sodium salt of 2.6 Betanaphthol Sulfonic Acid. Uses—mfr. intermediates, organic chemicals.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

SELENIUM (Metal)

Se. Steel-gray (also dark-red) solid crystalline. Sp. gr. 4.28. M.P. 217°C. (dark-red variety 170-180°C.). B.P. 690°C. Sol. concentrated sulfuric acid; insol. water, alcohol. Dark-red variety sol.

SELENIUM (cont'd)

carbon disulfide. Uses—mfr. electrical apparatus, glass rubber; in photometry; wireless telephony; sound photography; imbedding material in microscopy; biological chemistry; bacteriology; as laboratory reagent. Grades—tech.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Phelps Dodge Refg Corp, 40 Wall St, N Y — Whitehall 4-0560
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864

†Amer Metal Co, Ltd, N Y — Industrial Sales Corp, N Y
†Amer Smelting & Refg Co, N Y

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40, 80, 200 Mesh
Also Pellets
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325 Spring St., New York 13, N.Y.
Plant and warehouse: Hicksville, L. I.

SELENIUM DIETHYL DITHIOCARBAMATE

$Se[(C_2H_5)_2N(S)CS]_4$. M.W. 672. Yellow powder. Uses: vulcanizing agent for continuous cure wire insulation, heat resistant rubber goods and butyl rubber.

†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

SELENIUM DIMETHYL DITHIOCARBAMATE

$Se[SC(S)N(CH_3)_2]_4$. M.W. 559.8. Creamy yellow. M.R. 165-167° C. Uses: rubber industry.

†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

SELENIUM DIOXIDE (Selenous Acid Anhydride, Selenous Anhydride)

SeO_2. M.W. 111. Yellowish white powder or crystals; sharp odor. Uses: antioxidant for lubricating oils; catalyst; reagent for alkaloids.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

†Amer Smelting & Refg Co, N Y

SELENIUM SALTS

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Phelps Dodge Refg Corp, 40 Wall St, N Y — Whitehall 4-0560
Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864

SEMI CARBAZIDE HYDROCHLORIDE

†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

SERINE, NATURAL

Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942

†Algo Chem Co, Detroit, Mich

SHELLAC (Lac, Garnet Lac, Gum Lac, Mecca, Stick Lac)

Resin produced by bite of insect coccus cacca. Orange shade. Occurs in thin, yellowish-brown leaflets. Amorp. Sp. gr. 1.08-1.13. Sap. No. 194-213. Acid No. 48-64. Ester No. 137-163. Sol. alcohol, methanol, amyl alcohol. Uses—mfr. paints, varnishes, polishes, sealing wax, stains, leather dressings, electrical insulating compositions, matches, paper plastics, phonograph records, inks, rubber; finishing leather; stiffening felt hats and crepe; engraving and lithography; as binder for various purposes. Grades—D.C.; fine Orange; second Orange; T. N.; ground, regular; regular bleached; Bone Dry; A.C. Garnet; Diamond 1; U.S.O.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661

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SHELLAC (cont'd)

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Colony Import & Export Corp, 11 E 44 St, N Y — Murray Hill 2-3160
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Diehl, Wm, & Co, 330 W 42 St, N Y — Bryant 9-5211
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McAdam, T F, Inc, 125 Broad St, N Y — Digby 8-3525
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
†Wah Chang Corp, 233 Bway, N Y — Cortlandt 7-0887

Allan, Homer G, St. Louis, Mo
Burtonite Co, Nutley, N J
Cole & De Graf, San Fran, Calif
Collier, H C, & Sons, Binghamton, N Y
Furnam, James H, Co, Chicago, Ill
Knapp, Harry G, St Louis, Mo
Krekel Goetz Sales & Supply Co, Grand Rapids, Mich
Moser, George, & Son, Inc, Detroit, Mich
Robie, Milton F, S Braintree, Mass
†Shields, Thomas J, Co, N Y
Winther, S A, & Co, Inc, San Fran, Calif
Wiswell & Co, Belmont, Mass
Zimmerman, C L, Co, Cincinnati, O
†Zinsser, Wm, & Co, N Y

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SHELLAC, BLEACHED

White shellac made by bleaching orange shellac with sodium hypochlorite. For uses and other information see SHELLAC.

SHELLAC, BLEACHED (cont'd)

Amer Firtoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Colony Import & Export Corp, 11 E 44 St, N Y — Murray Hill 2-3160
Diehl, Wm, & Co, 330 W 42 St, N Y — Bryant 9-5211
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900

Baker & Gaffney, Phila, Pa
Furnan, James H, Co, Chicago, Ill
Houghton, Philip A, Inc, Boston, Mass
†Shields, Thomas J, Co, N Y
Wiswell & Co, Belmont, Mass
†Zinsser, Wm, & Co, N Y

SIENNA

Brownish-orange-yellow, natural amorp. clay. Contains hydrate ferric oxide and manganic oxide. Burnt form is richer and stronger in color. Sp. gr. raw 3.27; burnt 3.96. Uses—mfr. stains, paints, colors, varnishes, glass, oil-cloth, linoleum; antique effects on metals; for coloring paper. Grades—raw; burnt.

Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Huber, R G, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Deuts, Theodore H, Co, Bklyn, N Y
Grund, Henry L, Inc, Cleveland, O
†Landers-Segal Color Co, Bklyn, N Y
†Smith, J Lee, & Co, Inc, N Y
†Williams, C K, & Co, E St Louis, Ill

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SiO_2. M.W. 60.06. Natural crystalline, various colors (also amorp.). Sp. gr. crys. 2.319-2.653; amorp. 2.20. M.P. crys. 1750°C.; amorp. 1600°C. B.P. amorp. volatilizes at 2230°C. Sol. hot alkalies and hydrofluoric acid. Uses—mfr. flint glass, fused silica ware, frosted glass, water glass, colloidal silica, ultramarine, matches, carborundum, sandpaper, silica soaps, metal polishes, non-inflammable preparations, ceramics, tile, potteries, artificial stone and brick, cements, mortars, refractory bricks and linings, dental pastes, ferro-silicon, enameled iron ware, abrasive, scouring, asbestos, heat insulating, dynamite, and fertilizer compositions; as filtering, clarifying, decoloring and absorptive agent; purifying sugar, wines, linseed, fish and food oils, fats, petroleum, petroleum products, paraffin, waxes, resins, syrups, molasses; tanning leather; weighting paper; as metallurgical flux; acid tower filler; filler in lead and zinc paints, colors, pigments, wood and rubber. Grades—80-400 mesh; air and water floated; various as to color, source, and fineness.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
†Chaplain & Bibbo, 75 West St, N Y — Bowling Green 9-5636
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151

SANTOCEL

For Industrial Applications

GENERAL: Silica Aerogel of low density and high oil absorption. Four grades according to particle size and dry bulk density. **PROPERTIES:** Color, white-transparent in vehicles; index of refraction, 2.2; particle size, 3-5 microns depending on grade; dry bulk density, 2-3 lbs. per cu. ft. to 7.5 lbs. per cu. ft., depending on grade. **USES:** Flatting agent (matte finishes), anti-caking aid, dry grinding aid, bulk extender, thickening agent, rubber reinforcer, insecticide for stored grain.

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Santocel: Reg. U.S. Pat. Off.

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SILICA (cont'd)

†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960

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Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
†United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Beier Co, N Y
†La Rue Axtell Pumice Co, Eustis, Neb
Mfrs Mining Co, Seattle, Wash
New England Quartz Co of N Y, N Y
Porter Warner Industries, Inc, Chattanooga, Tenn
Speiden-Whitfield Co, N Y
†Wedron Silica Co, Chicago, Ill

SILICA AMORPHOUS

Amorphous silicon dioxide. Colorless powder. Density, 2.30; m.p. 1650°C. Insol. in water or alcohol; sol. in hot alkalies or hydrofluoric acid. Use—for chemical glassware.

†Chaplain & Bibbo, 75 West St, N Y — Bowling Green 9-5636
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
†Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Commercial Minerals Co, San Fran, Calif
†Corona Chem Div, Milwaukee, Wisc
†Dicalite Div, Los Angeles, Calif
†Illinois Minerals Co, Cairo, Ill
Speiden-Whitfield Co, N Y
Williams, C K, & Co, E St Louis, Ill

SILICA GEL

Incompletely dehydrated silicic acid (H_2SiO_4). Containing 3-7% H_2O. Uses—absorption agent, catalyst, carrier for catalytic materials.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Chaplain & Bibbo, 75 West St, N Y — Bowling Green 9-5636
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

DAVISON SILICA GEL

SILICA GEL

DESICCANT, CATALYST, CARRIER OF CATALYSTS

Hard, granular, clear, colorless colloidal material, capable of adsorbing large quantities of liquids or condensable gases; one cubic inch contains pores having a surface of about 50,000 sq. feet. Non-deliquescent. Will not cake nor powder. Can be reactivated at low temperature. Available in 3-mesh to minus 325 mesh.

Uses: Desiccant; as a catalyst and carrier of catalytic agents in many organic and inorganic processes; anti-caking agent; drying of gases, liquids and solids; air conditioning; industrial applications such as drying telephone cable splices and drying refrigerants; process drying, etc.; for Dehydrated Packaging.

Moisture-Indicating Type (TEL-TALE* silica gel) changes color as saturation point is approached.

HYDROGEL—colloidal silica compound—chemically active with alkalies—which can be mulled.

PROTEK-SORB* silica gel—the protective adsorbent for dehydrated packaging.

Davison's is the original Silica Gel . . . developed to its present high-adsorbent qualities by Davison Research. Our chemical engineers can assist you to overcome your dehydrating and dehumidifying or catalyst problems. Informative literature is available.

*Reg. U. S. Pat. Off.

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SILICA GEL (cont'd)

†Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910

National Aluminate Corp, Chicago, Ill

SILICON (Silicium)

Si. Gray, amorp. crystalline powd. Sp. gr. 2.00 (amorp.); 2.49 (cryst.). M.P. cryst. 1420°C. B.P. cryst. 2600°C. Sol. hydrofluoric acid and alkalies. Uses—mfr. silicon tetrachloride, silicon-bronze, silicon-copper, ferro-silicon, electro-silicon. Grades—tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Blum, Paul, Co, Buffalo, N Y — Mackay, A D, Inc, N Y

SILICON CARBIDE

SiC. M.W. 40.06. One of the hardest substances known. Uses—abrasive.

Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Carborundum Co, Niagara Falls, N Y — Fay-Cole & Co, Inc, Boston, Mass
†Exolon Co, Tonawanda, N Y

SILICON POWDER

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

SILICON TETRACHLORIDE

$SiCl_4$. M.W. 169.89. Clear, colorless, fuming liquid. Suffocating odor. Sp. gr. 1.5. M.P. —70°C. B.P. 57.6°C. Decomposes in water. Uses—smoke screens. Grades—technical.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200

SILICONES

†Gen Electric Co, Pittsfield, Mass — Var-Lac-Oil Chem Co, N Y
†Linde Air Prods Co, N Y

SILVER (Argentum)

Ag. Natural white or light gray lustrous metal. Sp. gr. 10.50. M.P. 961°C. B.P. 1955°C. Sol. nitric acid, hot concentrated sulfuric acid. Uses—mfr. silver salts, jewelry, coinage alloys, table silver, solders, decorative articles, watches, laboratory and scientific apparatus, colloidal silver drugs; for silvering mirrors; in dentistry; as chemical catalyst. Grades—powd.; sheet; foil; bars; wire; tubing; rivets; anodes; crucibles.

†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232

SILVER (cont'd)

†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
†Amer Metal Co, Ltd, N Y — †Hagston, T B, & Son, Phila, Pa
Baker & Co, Inc, Newark, N J — †Handy & Harman, N Y

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SILVER (Powder)—see METALS, POWDERED

SILVER BROMIDE (Bromyrite)

AgBr. M.W. 187.8. Yellow powd., yellow cryst. Sp. gr. 6.473. M.P. 427°C. Decomposes at 700°C. Insol. water, alcohol, ether. Sol. cyanide, bromide, thiosulfate solutions. Uses—in photography as light-sensitive coating.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

SILVER CARBONATE

Ag_2CO_3. M.W. 275.76. Yellow powder. Sol. dilute nitric acid, ammonia or alkali cyanides.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

SILVER CHLORIDE (Lunar Cornea)

AgCl. White, amorp. powd. Sp. gr. 5.553. M.P. 455°C. Sol. ammonium hydroxide, concentrated sulfuric acid solution, sodium thiosulfate, and potassium bromide solutions. Uses—mfr. metallic silver; in photography; photometry; silver plating; in medicine. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
†Jordan Co, Chicago, Ill

SILVER, COLLOIDAL

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
Uhe, George, Co, Inc, 75 E Av, N Y — Watkins 9-0870

SILVER, CYANIDE

AgCN. White powd.; about 80.6% Ag. Sp. gr. 3.95. Sol. ammonium hydroxide, dilute boiling nitric acid, potassium cyanide or sodium thiosulfate solutions; insol. water. Uses—in medicine; silver and alloy gold plating. Grades—tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Elmer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
†Hooper Chem Corp, Rutherford, N J

SILVER IODIDE

AgI. Pale yellow, odorless powd. Sp. gr. 5.675. M.P. 526-556°C. Sol. potassium cyanide, sodium hyposulfite, salt, potassium iodide, and hydroiodic acid solutions. Uses—mfr. photographic emulsions; in medicine. Grades—tech.; pure.

SILVER IODIDE (cont'd)

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610

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SILVER NITRATE (Lunar Caustic, Lapis Caustic)

$AgNO_3$. M.W. 169.89. Colorless, odorless cryst. Sp. gr. 4.352 M.P. 212°C. Decomposes on further heating and in light. Sol. water, hot alcohol, and glycerine. Uses—mfr. mother of pearl, glass, photographic emulsions, silver salts, indelible inks, hair dyes, pharmaceutical derivatives; silvering, plating, silvering mirrors; laboratory; reagent; in medicine. Grades—U.S.P.; C.P.; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

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Every ounce of Silver Nitrate Merck is the cumulative result of more than one hundred years of manufacturing experience . . . years of deliberate striving toward an objective—the creation of America's Finest Silver Nitrate. Specifically, the factors which make Silver Nitrate Merck best suited for even the most exacting use are:

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SILVER NITRATE (cont'd)

†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Baker & Co, Inc, Newark, N J — Braun Knecht Heimann Co, San Fran, Calif

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SILVER OXIDE

Ag_2O. M.W. 231.76. Dark-brown, odorless, amorp. powd. Sp. gr. 7.143. Decomposes at 300°C. Sol. ammonium hydroxide, potassium cyanide solution, nitric acid, and sodium thiosulfate; insol. alcohol. Uses—mfr. glass polishing compositions; as chemical catalyst; yellow color in glass; purifying drinking water; synthesis of ammonia from nitrogen; in medicine; contact silvering. Grades—tech.; U.S.P.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655

SILVER PERCHLORATE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

SILVER PHOSPHATE

Ag_3PO_4. M.W. 418.62. Yellow amorphous powder; melts at red heat; sensitive to light. Sol. acetic acid, aqueous ammonia, ammonia car-

SILVER PHOSPHATE (cont'd)

bonate; slightly sol. water. Uses: photography; removal of sulfides; to form phosphates; as catalyst; in drugs and pharmaceuticals.

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

SILVER SULFIDE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

SLATE FLOUR

Grayish, solid amorp. Sp. gr. 2.6—3.3. Uses—mfr. Portland cement and roofing compositions, ceramic products, fertilizers, abrasive soaps, electrical insulations, roofing tile and other building material, glass, metal polishes, toilet and tooth powds., phonograph records; as filler for putty, paint, varnish, rubber, linoleum and oil-cloth.

Doggett, Stanley, Inc, 75 Varick St, N Y — Walker 5-1051
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749

†Keystone Filler & Mfg Co, Muncy, Pa

SMALT (Saxony Blue, King's Blue, Zaffer, Bleu D'Azure, Bleu de Saxe, Azure Blue)

Blue, amorp. powd. consisting of cobalt, potash, and silica. Uses—as paint and varnish pigment; coloring ceramic products, glass and rubber; in bleaching substances; bluing paper, starch and textiles. Grades—tech.

Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

Egleston, Wm D, Co, Cambridge, Mass

SOAP BARK (Quillaja, China Bark, Murillo Bark, Panama Bark, Quillaia)

Dried bark of Quillaja saponaria. Habitat—Bolivia, Peru, Chile, etc. Uses—mfr. saponin, quillaiac acid, sapotoxin, soft drinks, shampoo preparations; as foam producer; emulsifier for fats, oils, balsams, resins, and waxes; in medicine. Grades—Quillaja Saponaria; whole; cut; crushed; powdered.

Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655

SOAP BUILDERS

Various products added to soap to increase the cleansing qualities, alkali content, water softening properties. When not added in excess they perform definite favorable functions; in excess they are considered "fillers." See Sodium Silicate, Sodium Metasilicate, Soda Ash, Bentonite, Sodium Phosphate, Tri Sodium Borate, Talc, Stannous Chloride, etc.

†Blockson Chem Co, Patterson Rd, Joliet, Ill — Joliet 2-6601
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Le 7-4650
†Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
†Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880

†Kem Labs, Bronx, N Y
Minnesota Chem Co, St Paul, Minn
Port Huron Detergent Co, Inc, Port Huron, Mich
†Specialty Prods Co, Griffin, Ga
Superior Prods Co, Somerville, Mass

SOAPS, METALLIC

Combinations of various metals, except sodium and potassium, with stearic, palmitic, oleic, and other fatty acids. Metallic soaps are insoluble. They are used for waterproofing fabrics, in the flatting of paints and varnishes, in bodying up liquids containing pigments and other suspended matter, in the manufacture of lubricants, in metal working, in leather, plastics, etc. See Aluminum Stearate, Aluminum Palmitate, Calcium Stearate, Magnesium Stearate, Zinc Stearate, etc.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Reheis Co Inc, Berkeley Hghts, N J — Summit 6-7110
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Martin Hoyt & Milne, San Fran, Calif
Tabler, Wm B, Co, Louisville, Ky

SODA ASH (Anhydrous Sodium Carbonate)

Na_2CO_3. Grayish-white powd. Constants vary according to grade and purity. Sol. water. Uses—mfr. sodium salts, pharmaceutical products, soap, rubber, boiler compounds, printing inks, dry colors, perfume preparations, synth. perfumes, glass, ceramics, fire, waterproofing, and household compositions, paper, paints, enamelware; for re-laundering; bottle and dish washing; refining tallow oil; scouring wool; softening water and leather; dyeing textiles; in cleaning compounds; in metallurgical industries. Grades—light and dense, 58% Na_2O sold on basis of 58% Na_2O.

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SODA ASH (cont'd)

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Amer Potash & Chem Corp, 122 E 42 St, N Y — Murray Hill 5-7142
Atlas Import Co, 510 N Dearborn St, Chicago, Ill — Superior 7-8646
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Le 7-4650
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Fazzy & Benthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Goris and Co, 8124 S Heyne Av, Chicago, Ill — Triangle 4-6200

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SODA ASH (cont'd)

Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
International Salt Corp, 70 Pine St, N Y	Whitehall 4-7490
†Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif	Twinoaks 3-4600
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa	McKeesport 4-4278
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960

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Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Reinhart Chem Corp, 405 Lexington Av, N Y	Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seldner & Enequist, Inc, 86 Hayeman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2810
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y	Stillwell 4-0500
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
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Duso Chem Co, Inc, Poughkeepsie, N Y
Empire Chem Corp, N Y
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Globe Chem Co, Cincinnati, O
H & W Chems, Inc, Rochester, NY
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Ideal Chem & Supply Co, Memphis, Tenn
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Kem Labs, Bronx, N Y
Leidy Chems Corp, Baltimore, Md
Lotte Chem Co, Inc, Paterson, N J
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Russell, W R, & Co, N Y
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Atlas Import Co, 510 N Dearborn St, Chicago, Ill — Superior 7-8646
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 3-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
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Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
†Dow Chem Co, Midland, Mich	Midland 500
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
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Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3500
Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-5000
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901

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★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y	6655
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Enco Chem Corp, N Y	†Southern Alkali Co, N Y
Fedigan, E J, Inc, Pittsburgh, Pa	Steele, Ben P, Co, N Y
†Frontier Chem Co, Midland, Texas	Steidle Chem Co, Louisville, Ky
Globe Chem Co, Cincinnati, O	Superior Prods Co, Somerville, Mass
Great Lakes Chem Co, Chicago, Ill	Taussig, F H, Chems, N Y
H & W Chems, Inc, Rochester, NY	Tobey Chem Co, N Y
Heyman, N H, Inc, N Y	Ulrich Chem Co, Indianapolis, Ind
Hood Chem Co, Kansas City, Mo	Vaughn Chem Co, Tulsa, Okla
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SODIUM ACETATE

$NaC_2H_3O_2.3H_2O$. Colorless, efflorescent, transparent cryst. Sp. gr. 1.4. M.P. 58°C. Sol. water, ether, slightly sol. alcohol. Uses—mfr. acetic anhydride, cinnamic acid, intermediates, organic chemicals, para red, synth. dyestuffs, pharmaceuticals, soaps, Schweinfurt green, dry colors, copper acetate pigment; dehydrating agent; mordant and resist in dyeing and printing textiles; photographic and laboratory reagent; purifying glucose; extracting alkaloids from opium; preserving meats; electroplating reagent; in medicine. Grades—U.S.P.; C.P.; tech.; fused; recrystallized.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	La 7-4650
Elbert & Co, Inc, 2 Bway, N Y	Digby 9-2670
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100

SODIUM ACETATE (cont'd)

Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, I J & M, 85 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307

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Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

†Ritter Chem Co, Amsterdam, N Y — Sergeant, E M, Pulp & Chem Co, Inc, N Y
Russell, W R, & Co, N Y

SODIUM ACID PYROPHOSPHATE (Disodium Dihydrogen Pyrophosphate, Acid Sodium Pyrophosphate)

$Na_2H_2P_2O_7$. White powd. Sol. water. Uses—as ingredient of flour leavening agent in electroplating—particularly of tin. Grades—good; C.P. commercial.

†Blockson Chem Co, Patterson Rd, Joliet, Ill — Joliet 2-6601
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
†Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif — Kimball 2214
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Enco Chem Corp, N Y

SODIUM ALGINATE—see also Algin

A hydroxylic vegetable colloid extracted from sea kelp. Has neutral reaction; soluble in wtaer. Uses—stabilizer in the manufacture of ice cream, chocolate milk, cosmetics, etc.

Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
†Kelco Co, 31 Nassau St, N Y — Beekman 3-7367
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

†Algin Corp of Amer, N Y — Kem Prods Co, Inc, Newark, N J
Burtonite Co, Nutley, N J — Herron, R F, Co, N Y

SODIUM ALKYL ARYLSULFONATE

Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

†Stepan Chem Co, Chicago, Ill

SODIUM ALKYL SULFATES

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700

†Stepan Chem Co, Chicago, Ill

SODIUM ALUMINATE

$Na_2Al_2O_4$. M.W. 81.97. White, amorp. powd. M.P. 1650°C. Sol. water. Uses—mfr. milky glass, soap; in water treatment; sizing paper; hardening building stones; mordants in dyeing and printing textiles; as cleaning compound. Grades—27 degree Baume solution.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700

†Barium & Chems, Inc, Willoughby, O — National Aluminate Corp, Chicago, Ill
Hampden Color & Chem Co, Springfield, Mass

SODIUM, ALUMINUM SILICOFLUORIDE

†Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214

SODIUM ALUMINUM SULFATE—see also Alum Sodium

$Al_2(SO_4)_3.Na_2SO_4.24H_2O$. Colorless crystals, saline astringent taste. Sp. gr. 1.675. M.P. 61°C. Uses—textiles, ceramics, dry colors, tanning, paper size precipitant, matches, inks, engraving, sugar refining, water purification, medicine.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

SODIUM AMIDE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Farchan Research Labs, 609 E 127 St, Cleveland, O — Glenville 1-8749

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SODIUM p-AMINOBENZOATE

†Cheno Pure Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Lemke, B L, & Co Inc, 199 Main St, Lodi N J — Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818

†Arenol Chem Corp, Long Is City, N Y — †Richmond Chem Corp, Staten Is, N Y
Panray Corp, N Y

SODIUM p-AMINOSALICYLATE

†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543

SODIUM p-AMINOSALICYLATE (cont'd)

Le Bus, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818
†Sumner Chem Co, Inc, 52 Wall St, N Y	Digby 4-3680

Panray Corp, N Y

SODIUM AMMONIUM PHOSPHATE (Microsmic Salt, Phosphorus Salt, Sodium Ammonium Hydrogen Phosphate)

$NaNH_4HPO_4.4H_2O$. M.W. 209.13. Colorless cryst. Sp. gr. 1.574. Decomposes on heating. Sol. water. Uses—reagent in blowpipe analysis; standardizing uranium solutions; determination of magnesium and manganese. Grades—tech.; C.P.; granular.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600

SODIUM ANTIMONATE

$2NaSbO_3.7H_2O$. Colorless cryst. Slightly sol. water, alcohol. Uses—mfr. opaque enamels for glass, ceramics, opaque glass, enamelled metal ware. Grades—tech.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
†Metal & Thermit Corp, 100 E 42 St, N Y	Murray Hill 6-5300
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959

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METAL & THERMIT CORPORATION

100 E. 42nd STREET, NEW YORK 17, N. Y.

SODIUM ARSENATE

$Na_3AsO_4.12H_2O$. M.W. 424.11. Colorless cryst. Sp. gr. 1.754. M.P. 86.3°C. Sol. water; slightly sol. alcohol. Uses—mfr. lead arsenate, insecticidal and germicidal compositions, dry colors, printing inks; mordant and assistant in dyeing and printing textiles; in medicine. Grades—pure cryst.; pure dry; tech.; C.P.; U.S.P.

Aceto Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa	Atlantic 1-4545
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Hummel Chem Co, Inc, 9 West St, N Y	Rector 2-5687
Republic Chem Corp, 94 Geekman St, N Y	Rector 2-9810

SODIUM ARSENITE (Sodium Meta-Arsenite)

$NaAsO_2$. Grayish-white, amorp. powd. Sp. gr. 1.87. Sol. water, alcohol. Uses—mfr. insecticides, soaps; preserving hides; dyeing textiles; general antiseptic. Grades—C.P.; pure; crude; poisonous.

Aceto Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Beier Co, N Y	Western Chem & Mfg Co, Los Angeles, Calif

SODIUM AZIDE

NaN_3. M.W. 65. Crystalline. Sol. water. Uses: mfg. of lead azide, medicinals.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del	Wilmington 4-5121
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y	Fairbanks 4-7550
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500

SODIUM BARBITAL (Mono Sodium Diethylbarbiturate)

$(C_2H_5)_2C:(CONNa.CONH):CO$. M. W. 206.14. White, odorless, bitter crystalline powder. Uses—medicinal.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404

SODIUM BARBITAL (cont'd)

Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

SODIUM BENZENESULFONATE

$C_6H_5SO_3Na$. M.W. 180.11. White to cream colored powder. Sol. water. Uses: hydrotropic solvent.

†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700

SODIUM BENZOATE

$NaC_7H_5O_2$. White, amorp., odorless granules or crystalline powd. Sol. water, alcohol. Uses—mfr. aniline dyes, tooth powders; food preservative; printing textiles; curing tobacco; in medicine. Grades—U.S.P.; crude; pure.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
†Carus Chem Co Inc, Union & 8 Sts, La Salle, Ill	La Salle 1500
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
†Dow Chem Co, Midland, Mich	Midland 500
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y	6655
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200

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★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
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†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770

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†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Uhe, George, Co, Inc, 75 E Av, N Y — Watkins 9-0870
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Central O-B Prods Co, Inc, Buffalo, N Y
Laist, H R, Co, San Fran, Calif
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†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600

SODIUM BICARBONATE (Baking Soda, Hydrosodic Carbonate, Vichy Salts, Sodium Acid Carbonate)

$NaHCO_3$. Solid, white crystalline. Sp. gr. 2.19-2.22. Loses carbon dioxide at 270°C. Sol. water. Uses—mfr. baking powd., carbonated beverages, effervescent salts, sweetmeats, potteries, porcelains; gold and platinum plating; prevention of timber mold; preserving butter; in medicine. Grades—U.S.P.; C.P.; tech. (99%).

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Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
†Church & Dwight Co Inc, 70 Pine St, N Y — Digby 4-2181
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Gusin St, Detroit, Mich — Le 7-4650
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610

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Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894

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Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa	McKeesport 4-4278
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Robert & Co, Inc, 60 Broad St, N Y	Digby 4-4870

SODIUM BICARBONATE (cont'd)

Schw Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seaboard Industries, 193 Keen St, Paterson, N J	Arwary 4-2294
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113
Weeks, D J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700

Berkshire Color & Chem Corp,
Duso Chem Co, Inc, Poughkeepsie, N Y
Globe Chem Co, Cincinnati, O
Hood Chem Co, Kansas City, Mo
Lyon Chems, Inc, St Paul, Minn
Merchants Prods Corp, Phila, Pa
Pearson Ferguson Chem Co, Kansas City, Mo
Rodgers Chem Co, Inc, Pittsburgh, Pa
Seidler Chem & Supply Co, Newark, N J
Steidle Chem Co, Louisville, Ky
Taussig, F H, Chems, N Y
Ulrich Chem Co, Indianapolis, Ind
Wise, Irving, & Co, Inc, N Y

SODIUM BICHROMATE (Sodium Dichromate, Sodium Acid Chromate)

$Na_2Cr_2O_7 2H_2O$. Red deliq. cryst. Sp. gr. 2.52. Loses water at 100°C. M.P. 320°C. Decomposes on further heating. Sol. water. Uses—mfr. chrome aluma, chrome pigments for paints, pyrotechnics, synth. perfumes and dyes, intermediates, electric batteries, organic chemicals, pharmaceuticals, fire-works, matches, chrome glues; chrome tanning leather; engraving copper plates; refining precious metals: electroplating; brass industry; mordant in dyeing and printing textiles: oxidizing agent in dyeing; laboratory reagent; bleaching sponges; general antiseptic; bleaching waxes, resins, fats, and oils; waterproofing and general oxidizing agent; refining petroleum products; in medicine; chemical film on lead and silver. Grades—tech.; C.P.; cryst.

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Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100

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Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Gunin St, Detroit, Mich	Le 7-4650
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Fallek Products Co Inc, 165 Bway, N Y	Barclay 7-7939
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Huisking, Chas L. & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Hunt, Philip A. Co, Palisades Park, N J	Leonia 4-4000
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Mutual Chem Co of Amer, 270 Madison Av, N Y	Caledonia 5-9710

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National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J Bigelow 3-0700
†Natural Prods Refg Co, 902 Garfield Av, Jersey City, N J Bergen 3-4060
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa McKeesport 4-4278
Page, Chas, & Co, Inc, 50 E 42 St, N Y Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y Murray Hill 7-7267
Robert & Co, Inc, 60 Broad St, N Y Digby 4-4870
Scher Bros, 519 Getty Av, Clifton, N J Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J Armory 4-2294
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I Hopkins 1-0770
Shepard Chem Corp, 117 Liberty St, N Y Worth 4-3950
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I Williams 1-0812
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J Chickering 4-7531
Uhe, George, Co, Inc, 75 B Av, N Y Watkins 9-0870
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y Stillwell 4-0500
Witco Chem Co, 295 Madison Av, N Y Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J Lambert 3-3600

Commercial Chems, Inc, Buffalo, N Y
Globe Chem Co, Cincinnati, O
Legion Export & Import Co, Inc, N Y
Mfrs Chem Co, N Y
Marble-Nye Co, Worcester, Mass
Merchants Prods Corp, Phila, Pa
Murbas Trading Co, N Y
Russell, W R, & Co, N Y
Wagner, A T, Co, Detroit, Mich
Wilkoff, David L, Co, N Y

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CHEMICALS DIVISION
608 Gulf Building · Pittsburgh 19, Pa.

SODIUM BIFLUORIDE (Sodium Acid Fluoride)

NaF.HF. White, crystalline powd. Decomposes on heating. Sol. water. Uses—food preservative; preservative for anatomical, etc. specimens; etching glass; in medicine. Grades—tech.

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa Atlantic 1-4545
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J Phillipsburg, 5-2151
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y Evergreen 8-2056
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y Digby 8-2670
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y Whitehall 4-2220
Harshaw Chem Co, 1945 E 97 St, Cleveland, O Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass Norwood 7-3113
Merchants Chem Co, Inc, 60 E 42 St, N Y Murray Hill 2-8712
Prior Chem Corp, 420 Lexington Av, N Y Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y Rector 2-9810
†Sundheimer, Henry, Co, 103 Park Av, N Y Murray Hill 5-4214

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Sodium Bifluoride
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Sodium Fluoride
Sodium Hyposulfite (Hypo)
Sodium Metabisulfite
Sodium Metasilicate
Sodium Phosphate, Dibasic
Sodium Phosphate, Dibasic, Recrystallized
Sodium Phosphate, Tribasic
Sodium Silicate
Sodium Sulfate (Glauber's Salt)
Sodium Sulfate (Salt Cake) Crystal and Anhydrous
Sodium Sulfide
Sodium Sulfite, Anhydrous
Sodium Tripoly Phosphate
Sodium Thiosulfate (Hypo) Trisodium Phosphate
Tetrasodium Pyrophosphate

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SODIUM BIFLUORIDE (cont'd)

Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y Stillwell 4-0500
Welch, Holme & Clark Co, Inc, 439 West St, N Y Chelsea 3-6048

Kem Labs, Bronx, N Y

SODIUM, BISMUTH TARTRATE

†Chemo Pure Mfg Corp, 26-32 Skillman Av, Long Is City, N Y Stillwell 6-2330
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y Evergreen 8-5600
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y Dobbs Ferry 3-1818

SODIUM BISMUTHATE

$NaBiO_3$. M.W. 280.00. Yellowish to brown. Amorphous. Somewhat hygroscopic. Uses—in analysis of iron, steel and ores.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J Phillipsburg, 5-2151
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y Evergreen 8-5600

SODIUM BISULFATE (Nitre Cake, Sodium Acid Sulfate)

$NaHSO_4$. M.W. 120.06. Crystalline powd.—crude niter cake in lumps. Sp. gr. 2.742. M.P. 315°C. Sol. water. Decomposes in alcohol. Uses—mfr. sodium sulfate, salt cake, soda alum, paper, soap, perfumes, brick, mineral waters, carbon dioxide gas, glue; flux for decomposing minerals; substitute for sulfuric acid; pickling, cleansing, and scouring metals; water disinfectant; dyeing and bleaching textiles; washing wool. Grades—tech.; cakes and ground; crude; cryst.; dry; fused; C.P.

†Amer Cyanamid Co, Explosives Dept, 30 Rockefeller Plaza, N Y Circle 7-0100
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J Phillipsburg, 5-2151
Chew, John A, Inc, 60 E 42 St, N Y Murray Hill 2-0993
Coburn, C B, Co, 63 Market St, Lowell, Mass Lowell 9331
†Cornwell Chem Corp, Cornwells Hgts, Pa Cornwells 0302
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del Wilmington 4-5121
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y Whitehall 4-2220
Harshaw Chem Co, 1945 E 97 St, Cleveland, O Cedar 1-6300
Kraft Chem Co, 917 W 18 St, Chicago, Ill Seeley 3-1919
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass Everett 7-5010
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J Bigelow 3-0700
Prior Chem Corp, 420 Lexington Av, N Y Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y Murray Hill 7-7267
Turner, Joseph, & Co, Ridgefield, N J Chickering 4-7531

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$NaHSO_3$. White, crystalline powd., slight sulfurous odor. Sp. gr. 1.48. Decomposes on heating. Sol. water. Uses—mfr. sodium salts, cream of tartar, glucose, sugar syrups, synth. dyestuffs and perfumes, intermediates, organic chemicals, tanning extracts; general antiseptic; antiseptic in fermentation industries; bleaching straw and cork; digesting wood pulp; sterilizing brewer's casks; antichlor in bleaching textiles; mordants and discharge in printing and dyeing fabrics; laboratory reagent; depilatory in cleaning hides; tanning leather; copper and brass plating; preserving foods; coagulating rubber latex; in medicine. Grades—powdered (65-67% SO_2); solution (32-40° Baume); pure dry; commercial dry; C.P.

Advance Solvents & Chem Corp, 245 5 Av, N Y Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y Murray Hill 6-0661
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J Phillipsburg, 5-2151
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y Murray Hill 2-0993
Coburn, C B, Co, 63 Market St, Lowell, Mass Lowell 9331
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y Digby 8-2670
Harshaw Chem Co, 1945 E 97 St, Cleveland, O Cedar 1-6300
Hunt, Philip A, Co, Palisades Park, N J Leonia 4-4000
Innis, Speiden & Co, 117 Liberty St, N Y Cortlandt 7-5803

SODIUM BISULFITE (cont'd)

McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

SODIUM m-BISULFITE

$Na_2S_2O_5$. M.W. 190.12. White crystalline powder. Sol. water; insol. alcohol. **Uses:** reducing agent in mfg. of chemicals, dyestuffs, intermediates, sugar, in tanning extracts; mordant in dyeing; bleaching textiles, straw, cork, paper; antiseptic in fermentation in food industries; ingredient in photographic fixing baths and electroplating solutions; as an antichlor; sulfonation of double bounds to produce detergents.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Hunt, Philip A, Co, Palisades Park, N J	Leonia 4-4000
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466

SODIUM BORATE (Borax, Tincal, Tinkal, Sodium Tetraborate, Zeia)

$Na_2B_4O_7.10H_2O$. Natural, white, solid crystalline or amorp. Sp. gr. 1.694 (17°C.). Melts at red heat. Sol. water, glycerine. **Uses**—mfr. borax soaps, detergents, ceramics, borates, dyes, special glasses, inks, jewelry solder, synth. gems, solder, washing compound, varnishes, pigments, glazed paper and cards, cosmetics, starches, imitation marble; scouring and degumming agent; detergent for wool and woolen fabrics; mordant in printing and dyeing; solvent bleach; treating laces and linens; preservatives for wood, hides; laboratory reagent; neutralising agent in chrome tanning; as flux; flux in welding; brazing agent; gold refining; enameling metals; lining safes; hat stiffener; in medicine. Grades—U.S.P.; C.P.; tech.—lump, powdered, glass.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Amer Potash & Chem Corp, 122 E 42 St, N Y	Murray Hill 5-7142
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Chapman Chem Co, Dermon Bldg, Memphis, Tenn	37-8316
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121



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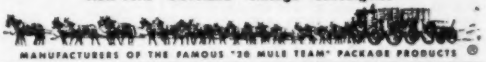
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Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Export Finders Bureau, 8 Bridge St, N Y	Bowling Green 9-2912
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†Pacific Coast Borax Co, 51 Madison Av, N Y	Lexington 2-5919
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
★†Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048

Great Lakes Chem Co, Chicago, Ill
Hampden Color & Chem Co, Springfield, Mass
Merchants Prods Corp, Phila, Pa
Mine & Smelter Supply Co, Denver, Colo

Stauffer CHEMICALS SINCE 1885

BORAX
BORIC ACID
(REFINED AND U. S. P.)

Stauffer Chemical Company

420 Lexington Avenue, New York 17, N. Y.
221 N. LaSalle Street, Chicago 1, Illinois
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For address of nearest branch office and complete list of our other products see our Catalog ad.

SODIUM m-BORATE

NaB_5O_4 or $NaB_5O_4.4H_2O$. M.W. 181.6 or 253.7. Crystals, which effloresce on exposure to atmosphere. Sol. water. Uses: preparation of photographic chemicals, adhesives, textiles finishing compounds, textile processing, in detergents and cleaners.

Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
†Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919
Wellen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

SODIUM BOROFLUORIDE

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa — Atlantic 1-4545
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

SODIUM BOROFORMATE

($NaH_2BO_3.2HCOOH.2H_2O$). White, crystal. solid. M.P., 110-111°C. Aqueous sol. has a pH of approx. 8.5. Uses—buffering agent toward both acid and alkali; enhances bactericidal action of salicylates.

†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

SODIUM BOROHYDRIDE

†Metal Hydrides, Inc, 16 Congress St, Beverly, Mass — Beverly 1875

SODIUM BROMATE

$NaBrO_3$. White cryst. or powd. Sp. gr. 3.339 (17.5°C.). M.P. 381°C. Sol. water. Uses—mfr. cyanogen bromide, inorganic chemicals. Grades—C.P.; pure; reagent.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Dow Chem Co, Midland, Mich — Midland 500
Le Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

SODIUM BROMIDE

a. NaBr. b. $NaBr.2H_2O$. Colorless deliq. cryst. Sp. gr. a. 3.203 (25°C.). b. 2.176 (20°C.). M.P. a. 757.7°C.; b. decomposes on heating. B.P. decomposes 1455°C. Sol. water; slightly sol. alcohol. Uses—mfr. photographic emulsions, organic chemicals; in medicine. Grades—U.S.P.; C.P.; commercial; pure; cryst.; powdered.

†Amer Potash & Chem Corp, 122 E 42 St, N Y — Murray Hill 5-7142
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
†Dow Chem Co, Midland, Mich — Midland 500
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
Le Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Michigan Chem Corp, St Louis, Michigan — 41
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoonewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

SODIUM CACODYLATE (Sodium Dimethyl Arsenate)

$Na(CH_3)_2AsO_2.3H_2O$. M.W. 214.06. White, odorless, deliquescent crystals or granular powder. M.P. 60°C. Uses—medicinal.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

CACODYLATES

SODIUM FERRIC

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CACODYLIC ACID

OTHER SALTS

EDCAN Laboratories
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SODIUM CAMPHOR SULFONATE

$C_{10}H_{15}O_4SNa$. M.W. 254. White, odorless, stable powder; sol. water. Use: medicinal.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

SODIUM CARBONATE (Sal Soda)

$Na_2CO_3.10H_2O$.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Amer Potash & Chem Corp, 122 E 42 St, N Y — Murray Hill 5-7142
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Coburn, C B,Co, 63 Market St, Lowell, Mass — Lowell 9331
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Fassy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Virginia-Carolina Chem Corp, 4011 E Main St, Richmond, Va — 2-0113
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0503
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Howard, Geo E, Harrisburg, Pa — Superior Prods Co, Somerville, Mass
Seidler Chem & Supply Co, Newark, N J

SODIUM CARBONATE MONOHYDRATED (Crystal Carbonate)

$Na_2CO_3.H_2O$. White powd. Loses water at 100°C. Sol. water. Sp. gr. 1.55. Uses—mfr. chemicals, cleaning and boiler compounds; in laundry textile cleaning; photography; in medicine. Grades—U.S.P.; tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Church & Dwight Co Inc, 70 Pine St, N Y — Digby 4-2181
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif — Kimball 2214
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Norman-Willets Co, Chicago, Ill

SODIUM CARBONATE PEROXIDE

Becco Sales Corp, Buffalo, N Y — Bedford 8300
†Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300

SODIUM CASEINATE

Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†National Casein Sales, 601-619 W 80 St, Chicago, Ill — Vincennes 6-7300
†Sheffield Farms Co, Inc, Chemurgic Div, P O Box 630, Norwich, N Y — Norwich 915

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PHOSPHORUS PENTACHLORIDE

PHOSPHORUS TRICHLORIDE

PHOSPHORUS PENTASULFIDE

PHOSPHORIC ANHYDRIDE

PHOSPHORUS (Yellow or White)

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SODIUM CHLORATE

$NaClO_3$. Colorless cryst. Sp. gr. 2.490. M.P. 250°C. Decomposes on further heating. Sol. water, alcohol. Uses—mfr. matches, bromine from natural brines, explosive compositions; general oxidizing agent for chemical purposes; as weed killer; substitute for potassium chlorate; tanning and finishing leather; mordant in dyeing and printing textiles; in medicine. Grades—cryst.; powd.; C.P.; U.S.P.; tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
Elbert & Co, Inc, 2 Bway, N Y	Digby 9-2670
Fezzy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Oldbury Electro Chem Co, 19 Rector St, N Y	Digby 4-1668
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Hardy, M W, & Co, Inc, N Y	Steele, Ben P, Co, N Y
Lyon Chems, Inc, St Paul, Minn	

SODIUM CHLORIDE (Salt, Common Salts, Rock Salt, Sal Culinaris, Table Salt, Sea Salt)

NaCl. M.W. 58.45. Natural, colorless or white, hygroscopic cryst. Sp. gr. 2.161. M.P. 804°C. B.P. 1413°C. Sol. water, glycerol. Uses—mfr. sodium salts, chlorates, hypercholrites, chlorine, bleaching powd., hydrochloric acid, metallic sodium, pickles, butter margarine, mineral waters; dyes, ceramic glazes, paper, glass, fertilising compositions, food preparations; for culinary and pickling purposes; as condiment; preserving fish and meat; in dairy industry; metallurgy of zinc, copper, silver, and gold; salting dyestuffs; in freezing mixtures and cattle foods; photographic and laboratory reagent; dyeing and printing textiles; salting out soap; sodium light for spectroscopic and polariscopic work; curing hides; tanning leather; in medicine. Grades—C.P. crude rock, sea, evaporated; U.S.P.; medicinal; fused; ground, powdered cryst.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Coburn, C B,Co, 63 Market St, Lowell, Mass	Lowell 9331
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789

SODIUM CHLORIDE (cont'd)

Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Michigan Chem Corp, St Louis, Michigan	41
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa	McKeesport 4-4278
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
†Carey Salt Co, Hutchinson, Kansas	Riverside Chem Co, Inc, N Tonawanda, N Y
†Cayuga Rock Salt Co, Myers, N Y	
Cutler-Magner Co, Duluth, Minn	†Schuylkill Chem Co, Phila, Pa
Fedigan, E J, Inc, Pittsburgh, Pa	†Worcester Salt Co, N Y
†Frontier Chem Co, Midland, Texas	

SODIUM CHLORITE

$NaClO_2$. Uses—oxidizing agent, bleaching, reagent.

†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8500

SODIUM CHROMATE

$Na_2CrO_4.10H_2O$. M.W. 342.16. Yellow, efflorescent, hygroscopic cryst. Sp. gr. 1.483. M.P. 19.92°C. Sol. water; slightly sol. alcohol Uses—mfr. mineral paint pigments; ink, chromates, dichromates, metallic chromium; mordant in dyeing and printing textiles; chemical film on lead and silver; tanning leather. Grades—pure neutral; highest purity; tech.; C.P.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
King, E & F. & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Mutual Chem Co of Amer, 270 Madison Av, N Y	Caledonia 5-9710
†Natural Prods Refg Co, 902 Garfield Av, Jersey City, N J	Bergen 3-4060
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531

SODIUM CHROMATE

Stocks carried by agents in principal industrial cities.

Largest and Oldest Manufacturers of Chromium Chemicals in the United States.

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270 Madison Avenue **New York 16, N. Y.**

Factories: **Baltimore and Jersey City**

SODIUM CITRATE

$2Na_3C_6H_5O_7.11H_2O$. Colorless cryst. Sp. gr. 1.857 (23.5°C.). M.P. loses water at 150°C. Decomposes on further heating. Sol. water; slightly sol. alcohol. Uses—mfr. beverages; as photographic reagent; electroplating reagent; in medicine. Grades—C.P.; pure; commercial; U.S.P.; U.S.P. VII (both granular).

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Schuylkill Chem Co, Phila, Pa

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CALCIUM CITRATE *PURIFIED*

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SODIUM CYANATE

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120

SODIUM CYANIDE

NaCN. White, deliq. crystalline granules. Sol. water; slightly sol. alcohol. Uses—solvent for previous metals in metallurgy; electroplating solutions, and cleaning metals; heating and treating metals; source of hydrocyanic acid for insecticidal purposes; fumigation; in medicine. Dangerous Poison. Grades—73-75%, 96-98%. Imported rated on equivalent in potassium cyanide as 120%, 125%, 128%; sometimes rated on cyanogen content as 52% equivalent to 96-98% grade.

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REG. U.S. PAT. OFF.

METALLIC SODIUM, 99.9%
POTASSIUM METAL, 97.5%
SODIUM CYANIDE, 96%
POTASSIUM CYANIDE, 96%
Cyanide Mixtures — Zinc Cyanide
Copper Cyanide — Sodium Sulfocyanide

E. I. DU PONT DE NEMOURS & CO. (INC.)
ELECTROCHEMICALS DEPARTMENT
WILMINGTON 98 DELAWARE

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Amer Cyanamid Co, Mineral Dressing Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-3121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Gusin St, Detroit, Mich — La 7-4650
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

PLATING MATERIALS

SODIUM CYANIDE
COPPER CYANIDE
ZINC CYANIDE
NICKEL SALTS
•
ESTABLISHED 1892
ELBERT & COMPANY, INC.
2 BROADWAY, NEW YORK 4, N.Y., DIGBY 8-2670

SODIUM CYANIDE (cont'd)

Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294

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POTASSIUM CYANIDE
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KRAFT CHEMICAL COMPANY
917 W. 18th St., CHICAGO 8, ILL.
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Seldner & Ennquist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686
Wollen Chem & Supply Co, 125 6 Av, Paterson, N J — Lambert 3-3600

Barada & Page, Inc, Kansas City, Mo
Donald Sales & Mfg. Co, Milwaukee, Wisc
Globe Chem Co, Cincinnati, O
Hardy, Charles, Inc, N Y
Wagner, A T, Co, Detroit, Mich

INDUSTRIAL CHEMICALS

SODIUM CYANIDE
COPPER CYANIDE
ZINC CYANIDE
POTASSIUM CYANIDE

Philipp Brothers Chemicals, Inc.
37 WALL STREET, NEW YORK 5, N. Y.
Cable Address: PHIBROCHEM NEW YORK
HARTFORD BOSTON PROVIDENCE
PHILADELPHIA BALTIMORE

SODIUM p-CYMENE SULFONATE

Hexagon Labs, Inc, 3536 Peartree Av, Bronx, N Y — Fairbanks 4-7350
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

SODIUM DIACETATE (Sodium Acid Acetate)

$NaC_2H_3O_2.CH_3COOH$. White powd. Decomposes above 150°C. Sol. water, liberating 42.25% available acetic acid. Uses—available acetic acid in solid form. Grades—C.P.

†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307

SODIUM 2, 4-DICHLOROPHENOXYACETATE

†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Michigan Chem Corp, St. Louis, Michigan — 41
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200

SODIUM DIPHENYLAMINE SULFONATE

†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

SODIUM DIPHENYL-BENZIDINE SULFONATE

†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

SODIUM FERRIC PYROPHOSPHATE

$Na_6Fe_4(P_2O_7)_5.XH_2O$. Finely subdivided powder, insoluble in water, soluble in hydrochloric acid; contains 15.5% iron. Uses—food fortification as a mineral supplement.

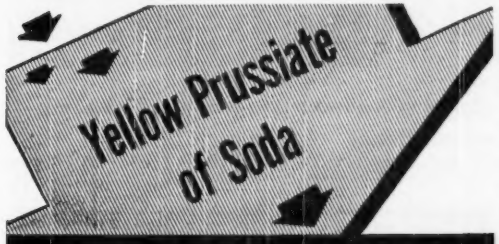
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

SODIUM FERRICYANIDE

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

SODIUM FERROCYANIDE (Yellow Prussiate of Soda)

$Na_4Fe(CN)_6.10H_2O$. M.W. 484.11. Yellow monoclinic crystals. Sol. water; insol. alcohol. Uses: mfg. of blue pigments, ferricyanides, for textile printing.



HENRY BOWER CHEMICAL
MANUFACTURING COMPANY
29th & GRAY'S FERRY ROAD, PHILADELPHIA 46, PA.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Bower, Henry, Chem Mfg Co, Gray's Ferry Rd & 29 St, Phila, Pa — Howard 5-2100
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Follett Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

SODIUM FLUOBORATE (Sodium Borofluoride)

$NaBF_4$. M.W. 109.82. White powder. Uses: oxidation, inhibitors; grain-refining agents; purifying and wetting fluxes for non-ferrous metals, especially aluminum.

†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa — Atlantic 1-4545
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220

ALCOA CHEMICALS

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Calcined Aluminas
Low Soda Aluminas
Tabular Aluminas
Hydrated Aluminas
Aluminum Fluoride
Sodium Acid Fluoride

Sodium Fluoride
Fluoboric Acid
Cryolite

ALUMINUM COMPANY OF AMERICA
CHEMICALS DIVISION
608 Gulf Building · Pittsburgh 19, Pa.

SODIUM FLUOBORATE (cont'd)

Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

SODIUM FLUORIDE (Fluorol)

NaF. White powd. or colorless cryst. Sp. gr. 2.766. M.P. 982°C. Sol. water; slightly sol. alcohol. Uses—mfr. enamels, vermin destroyers, rat poisons; as insecticide; germicide; flux; preservative for wood and food; in medicine. Grades—tech. (96-98% powd.); C.P.; pure. Poison.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa — Atlantic 1-4545
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Blocksom Chem Co, Patterson Rd, Joliet, Ill — Joliet 2-6601
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214
Pearson Ferguson Chem Co, Kansas City, Mo — Superior Prods Co, Somerville, Mass

SODIUM FLUOROACETATE

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

SODIUM FORMATE

$NaCHO_2$. White deliq. crystalline powd. Sp. gr. 1.919. M.P. 245.5°C. Sol. water; slightly sol. alcohol. Uses—mfr. formic and oxalic acids, intermediates, organic chemicals; mordant in dyeing and printing textiles; reducing agent for chemical purposes; in medicine. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
†Trojan Powder Co, Allentown, Pa — 45201
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541
Wells Chem Co, Johnstown, N Y

SODIUM GLUCONATE

$NaC_6H_{11}O_7$. White to yellowish crystalline powder; soluble in water. Uses—foods, pharmaceuticals.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

SODIUM GLUTAMATE MONO (Mono-Sodium Glutamate)

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709

GLYCEROPHOSPHATES

Calcium Glycerophosphate, N.F.

Specifications: Fine white powder; assay (dry basis) 98.0% min.; loss on drying at 130° C., 12.0% max.; solubility in water (1:50), complete at 25° C.; chlorides (as $CaCl_2$), 0.1% max.; sulfates (as $CaSO_4$), 0.68% max.; free phosphates (as P_2O_5) 0.02% max.; conforms to N. F. test for heavy metals; 3.0% max. retained on 80-mesh; 5.0% max. on 100-mesh.

Ferric Glycerophosphate, N.F.

Specifications: Buff or yellowish green powder; assay (dry basis), 17.0% Fe min.; moisture 11.0% max.; chlorides (as $FeCl_3$), 0.1% max.; sulfates (as $Fe_2(SO_4)_3$), 0.2% max.; free phosphates (as P_2O_5), 0.2% max.; 2.0% max. retained on 60-mesh, 10.0% max. on 140-mesh, 30.0% max. on 230-mesh.

Magnesium Glycerophosphate

Specifications: White powder; assay (dry basis), 97.0% min.; moisture, 12.5% max.; calcium (as $CaCl_2$), 0.3% max.; chlorides (as $MgCl_2$), 0.1% max.; sulfates (as $MgSO_4$), 0.1% max.; free phosphates (as P_2O_5), 0.2% max.; heavy metals, 30 ppm max.; 2.0% max. retained on 60-mesh, 4.0% max. on 80-mesh, 10.0% max. on 100-mesh.

Manganese Glycerophosphate, N.F.

Specifications: Pinkish white powder; assay (dry basis), 98.0% min.; solubility in 25% citric acid solution (1:5), complete; moisture, 11.0% max.; chlorides (as $MnCl_2$), 0.15% max.; sulfates (as $MnSO_4$), 0.25% max.; free phosphates (as P_2O_5), 0.20% max.; conforms to N. F. test for heavy metals; 2.0% max. retained on 60-mesh, 4.0% max. on 80-mesh, 10.0% max. on 140-mesh.

Potassium Glycerophosphate (75% Solution)

Specifications: Clear, colorless or slightly yellowish solution; assay, 61.6-63.2% anhydrous salt; carbonates (as K_2CO_3), 0.5% max.; chlorides (as KCl), 0.1% max.; sulfates (as K_2SO_4); 0.1% max.; free phosphates (as P_2O_5), 0.2% max.; heavy metals, 20 ppm max.

Sodium Glycerophosphate

Specifications, N. F.: White crystals or powder; assay, 68.0-72.0% anhydrous salt (equivalent to 96.4-104.9% hydrated salt); solubility in water (1:10), complete; chlorides (as NaCl), 0.05% max.; free phosphates (as P_2O_5), 0.02% max.; conforms to N. F. test for heavy metals; sulfates (as Na_2SO_4); 0.1% max.

Specifications, 75% Solution: Clear, colorless or slightly yellow solution; assay 50.0-52.0% anhydrous salt; carbonates (as Na_2CO_3) 0.5% max.; chlorides (as NaCl) 0.1% max.; sulfates (as Na_2SO_4) 0.2% max.; free phosphates (as P_2O_5) 0.15% max.; heavy metals, 20 ppm max.

Glycerophosphoric Acid (35% Solution)

Specifications: Clear, colorless liquid, APHA 30 max.; assay, 35.0-36.0%; chlorides (as CaCl) 0.15% max.; sulfates (as $CaSO_4$), 0.30% max.; calcium (as CaO), 0.35% max.; free phosphates (as P_2O_5), 0.50% max.; heavy metals, 40 ppm max.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division, St. Louis 4, Mo.

MONSANTO
CHEMICALS—PLASTICS

SERVING INDUSTRY... WHICH SERVES MANKIND

SODIUM GLUTAMATE MONO (cont'd)

Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6302
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
†Staley, A E, Mfg Co, Decatur, Ill — 4141
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

Anton-Murray Co, Chicago, Ill
†Huron Milling Co, Inc, N Y
Rimco Trading Corp, N Y
Talve Trading Co, N Y

SODIUM GLYCEROPHOSPHATE

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

SODIUM GOLD CYANIDE

$NaAu(CN)_2$. Yellow powd. Sol. water; contains 40% gold min. Uses—gold plating.

Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655

Linick Chem Co, Chicago, Ill

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POTASSIUM GOLD CYANIDE

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SODIUM HEXA-m-PHOSPHATE—see Sodium Metaphosphate

SODIUM HYDRIDE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Metal Hydrides, Inc, 16 Congress St, Beverly, Mass — Beverly 1875

Metal Hydrides INCORPORATED

SODIUM HYDRIDE

PROPERTIES

Formula.....NaH
Appearance.....White-to-gray free-flowing powder
Molecular Weight...24.005
Melting Point.....Decomposes reversible above 150°C, rapidly above 400°C, to give hydrogen and molten sodium.

for information WRITE
METAL HYDRIDES INCORPORATED
CONGRESS STREET • BEVERLY, MASS.

SODIUM HYDROSULFIDE (Sodium Sulfhydrate)

$NaHS.3H_2O$. M.W. 110.11. Rhombic crystals. M.P. 22° C. Sol. in water and alcohol. The dihydrate ($NaHS.2H_2O$) has a M.W. of 92.10, and properties similar to the trihydrate, but is less stable.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
†Chem Prods Corp, Cartersville, Ga — Cartersville 798
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993

SODIUM HYDROSULFIDE (cont'd)

Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200

†Halby Chem Co, Inc, Wilmington, Del

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DOES IT!

"Virginia" Sodium Hydrosulphite is used for vat color reduction, textile decolorizing and stripping, and in the bleaching of soaps, sugar, oils, and minerals, as well as straw and other fibres. It is a concentrated, free-flowing, uniformly crystalline white powder combining unusual product-stability with high reducing efficiency in solution. In 250-lb. single-trip steel drums.

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VIRGINIA Chemicals

SODIUM HYDROSULFITE

$Na_2S_2O_4.2H_2O$. Colorless, amorp. cryst., which decomposes at red heat. Sol. water. Uses—discharge in dyeing and printing textiles; reducing agent for removing dyes from textiles; bleaching agent and ingredient of vat liquors. Grades—tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
†Virginia Smelting Co, W Norfolk, Va — Portsmouth 7-3441
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Berkshire Color & Chem Corp, Springfield, Mass
Rimco Trading Corp, N Y
†Royce Chem Co, Carlton Hill, N J

SODIUM HYPOCHLORITE (Eau de Labarraque, Eau de Javelle, Javelle Water)

NaOCl. Unstable in air. Stored in solution. Disagreeable, sweetish odor. Decomposes on heating. Sol. cold water. Uses—mfr. indigo, intermediates, organic chemicals, anthranilic acid; bleaching textiles, paper, pulp, etc.; purifying water in laundries; in medicine. Grades—solutions, 14%, various as to seller.

Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
†Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735

TELEPHONE STILLWELL 4-0500 Washine TELEPHONE PRESCOTT 7-4141

SODIUM HYPOCHLORITE
ACIDS — ALKALIES
Caustic Soda — Acetic — Ammonia, Aqua
Soda Ash — Muriatic — Nitric Acid
Formaldehyde — Sulphuric — Phosphoric
Silicates — Dry & Liquid
CAR LOAD — TRUCK LOAD — TANK WAGON

WASHINE-NATIONAL-SANDS-INC.
37-02 NORTHERN BLVD. LONG ISLAND CITY 1, N.Y.
165 MAIN STREET LODI, N. J.

SODIUM HYPOCHLORITE (cont'd)

National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Barton Chem Co, Chicago, Ill
Central Illinois Labs, Inc, Peoria, Ill
Central O-B Prods Co, Inc, Buffalo, N Y
†H & W Chems, Inc, Rochester, NY
†Hampden Color & Chem Co, Springfield, Mass
Hampden Color & Chem Co, Springfield, Mass
Howard, Geo E, Harrisburg, Pa
Kem Labs, Bronx, N Y
†Kuehne Chem Co, Elizabeth, N J
†Monarch Chem Wks, Inc, Omaha, Neb
†Nelson Chems Corp, Detroit, Mich
†Riverside Chem Co, Inc, N Tonawanda, N Y
†Robins, G S, & Co, St Louis, Mo
Robins, G S, & Co, St Louis, Mo
Talve Trading Co, N Y

SODIUM HYPOPHOSPHITE

$NaH_2PO_2.H_2O$. M.W. 106.04. Uses—medicinal.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Pure Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
†Oldbury Electro Chem Co, 19 Rector St, N Y — Digby 4-1668
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

SODIUM HYPOSULFATE

$Na_2S_2O_6.2H_2O$. Large transparent crystals, bitter taste. Sp. gr. 2.175. Uses—reagent.

†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

SODIUM HYPOSULFITE (Sodium Thiosulfate, Hypo, Sodium Subsulfite)

$Na_2S_2O_3.5H_2O$. Colorless cryst. Sp. gr. 1.729. M.P. 32.48°C. Decomposes at 220°C. Sol. water, and oil of turpentine. Uses—mfr. synth. dyes, mercury pigments, intermediates, organic chemicals; pickling candle wicks; bleaching paper, ivory, bones, oils, and wool, etc.; extracting silver from ores; fixing agent in photography; chrome tanning leather; assistant in dyeing and printing fabrics; purifying drinking water; electroplating reagent; laboratory reagent; in medicine. Grades—U.S.P.; tech.; pea and regular cryst.; granulated; C.P.; pure.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif — Kimball 2214
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Kans
Ideal Chem & Supply Co, Memphis, Tenn

SODIUM IODATE

$NaIO_3$. M.W. 197.02. White crystals. Sol. water. Acetone. Insol. alcohol. Uses—medicine, disinfectant.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

SODIUM IODIDE

a. NaI. b. $NaI.2H_2O$. White deliq. granules. Sp. gr. a. 3.665; b. 2.448. M.P. a. 664°C. B.P. a. 1300°C. Sol. water and alcohol. Uses—mfr. organic chemicals; iodine solvent; photographic and laboratory reagents; in medicine. Grades—U.S.P.; C.P.; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870

SODIUM IRON PYROPHOSPHATE

$Na_2Fe_2(P_2O_7)_3 \cdot 6H_2O$. M.W. 1,270.20. Light tan powder. Uses: iron enrichment of flour, cereals, milk amplifiers, food beverages.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

SODIUM LACTATE

$NaC_3H_5O_3$. M.W. 112.06. A thick syrup-like liq. Sol. water, alcohol. M.P. 17°C. Uses—in form of 75% as a corrosion inhibitor in alcohol antifreeze.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Amer Maize Prods Co, 100 E 42 St, N Y — Murray Hill 3-9200
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Sheffield Farms Co, Inc, Chemurgic Div, P O Box 630, Norwich, N Y — Norwich 915
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Apex Chem Co, N Y

SODIUM LAURYL SULFATE

New product which is finding use as a soap substitute. Does not leave a "ring." Employed largely in the textile field.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

†Stepan Chem Co, Chicago, Ill

SODIUM LIGNOSULFONATE, NEUTRAL

Tan free flowing powder. Decomposition at 175° C. Sol. water, glycerine, ethanolamine; slightly sol. methanol, ethanol; insol. petroleum hydrocarbons, benzene. Uses: dispersant and emulsifier for pitch, carbon blacks, anti-oxidants and pigments, acetate dyes and vat colors, in insecticides.

†Marathon Corp, Chem Div, Rothschild, Wis

SODIUM, METAL (Natrium)

Na. AtW. 23. Silver white, solid amorp. Sp. gr. 0.9732 (15°C.). M.P. 97.6°C. B.P. 880°C. Decomposes in water. Insol. benzine, benzene, kerosene, naphtha. Uses—mfr. sodium salts, sodium peroxide, sodium cyanide, sodamide, indigo, dyestuffs, synth. perfumes and drugs, silicon, sodium amalgams and alloys, intermediates, organic chemicals; as chemical catalyst; reducing agent; desulfurizing petroleum; as flux in metallurgy of magnesium; laboratory reagent. Grades—tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
†Ethyl Corp, 100 Park Av, N Y — Oregon 9-2000
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870

SODIUM METANILATE

$NaO_3S(C_6H_4)(NH_2)$. Solid. Uses—mfr. intermediates, dyestuffs. Grades—tech. 99%; solution 20%.

Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300

SODIUM METHYLARSENATE (Arrhenal, Disodium monomethylarsenate)

$Na_2CH_4AsO_4.6H_2O$. M.W. 291.986. M.P. 130-140°C. Uses—medicine.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005

SODIUM METHYLATE

CH_3ONa. M. W. 54.031. Sodium Methylate is an amorphous, white, free flowing powder easily soluble in methyl and ethyl alcohol. It reacts with the moisture in air to form caustic soda and methyl alcohol. It is sensitive to the oxygen in air. It decomposes on heating to about 300° with the formation of ethylene, Na_2CO_3, C and H. When heated in the presence of air to 100-150°C. alcohol is split off and a mixture of sodium carbonate, formate and acetate is formed. At 200°C. oxalate is also obtained. Uses—in various condensation reactions such as in the preparation of aceto acetic ester and barbiturates; in the condensation of alkyl carbonates with organic esters and ketones and in pyrimidine condensations.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

SODIUM MOLYBDATE

$Na_2MoO_4.2H_2O$. White crystalline powd. or colorless leaflets. Sp. gr. 2.590. M.P. 687°C. Sol. water. Uses—mfr. casein glues, paint pigments; as laboratory reagent; in medicine. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811

†Climax Molybdenum Co, N Y — †Shattuck, S W, Chem Co, Denver, Colo
†North Metal & Chem Co, York, Pa

Baker's chemicals

MOLYBDATES

MOLYBDIC ACID

AMMONIUM MOLYBDATE

SODIUM MOLYBDATE ANHYDROUS

J. T. BAKER CHEMICAL CO.

PHILLIPSBURG, N.J.

New York Philadelphia Chicago

SODIUM MONOXIDE

Na_2O. M.W. 62.0. Grayish or white mass. Sublimes and melts at red heat; decomposed by water, alcohol and ether to form the hydroxide. Uses: as a reagent, as a strong base.

†Du Pont de Nemours, E I, & Co (inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121

SODIUM NAPHTHENATE

White paste. Uses—mfr. driers; as a detergent.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

SODIUM NAPHTHIONATE (Sodium Naphthylamine Sulfonate Alpha)

$NaC_{10}H_6NH_2SO_4$. Colorless cryst. Sol. water. Uses—mfr. dyestuffs; detecting nitrous acid. Grades—tech. (paste, 99% cryst.).

†Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

SODIUM 2-NAPHTHOL-3,6-DISULFONATE

†Carwin Co, Stiles Lane, North Haven, Conn — New Haven 2-2161
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300

SODIUM NITRATE (Chile Salpetre, Cubic Nitre, Nitratine, Soda Nitre Saliter)

$NaNO_3$. M.W. 85.01. Colorless, odorless, hygroscopic cryst. Sp. gr. 2.257. M.P. 308°C. Decomposes on further heating. Sol. water, glycerine; slightly sol. alcohol. Uses: mfr. sulfuric and nitric acids, sodium salts, dyestuffs, intermediates, pharmaceuticals, potassium nitrate, dynamites, military explosives and fuses, glass, pyrotechnic compositions, fertilizers, leather dressings, red lead and paint pigments, rayon; general oxidizing agent; as fertilizer; food preservative; pickling meats; enhancing burning qualities of tobacco; metallurgical flux; in medicine. Grades— U.S.P., granular, sticks, powd.; crude, 95%, double, refined, recrystallized; C.P.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
†Davies Nitrate Co Inc, 118 Liberty St, N Y — Rector 2-6095

SODIUM NITRATE (cont'd)

Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473

Battelle & Renwick, Inc, N Y
Croton Chem Corp, N Y
Hooper Chem Corp, Rutherford, N J
Huber, L W, Co, N Y
Pearson Ferguson Chem Co, Kansas City, Mo
Priddy, C W, & Co, Inc, Norfolk, Va

SODIUM NITRITE (Diazotizing Salts)

$NaNO_2$. Slightly yellowish or white cryst. Sp. gr. 2.167. M.P. 271°C. Decomposes on further heating. Sol. water; slightly sol. alcohol, ether. Uses—mfr. azo dyestuffs, nitrite oxide; dyeing textiles by diazotization; reagent in making intermediates, organic chemicals, pharmaceuticals; laboratory and photographic reagent; pickling meats; in medicine. Grades—tech.; recrystallized; C.P.; U.S.P.; sticks; cryst.; powd.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
Davies Nitrate Co Inc, 118 Liberty St, N Y	Rector 2-6095
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del	Wilmington 4-5121
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919

SOLVAY PRODUCTS

SODIUM NITRITE
U.S.P.

Write today for complete information on this and other Solvay Products in which you may be interested.

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ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street, New York 6, N. Y.

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Boston • Charlotte • Chicago • Cincinnati • Cleveland • Detroit • Houston
New Orleans • New York • Philadelphia • Pittsburgh • St. Louis • Syracuse

McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2810
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

Battelle & Renwick, Inc, N Y
Berkshire Color & Chem Corp, Springfield, Mass
Central O-B Prods Co, Inc, Buffalo, N Y
Croton Chem Corp, N Y
Sergeant, E M, Pulp & Chem Co, Inc, N Y

SODIUM OLEATE (Eunatrol)

$NaC_{18}H_{33}O_2$. Yellow, amorp. granules. M.P. 235°C. Sol. water, alcohol. Uses: waterproofing textiles, etc.

SODIUM OLEATE (cont'd)

†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J	Bergen 4-1300
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048

†Amalgamated Chem Corp, Phila, Pa

SODIUM OXALATE

$Na_2C_2O_4$. White, crystalline powd. Sol. water. Uses—mfr. pyrotechnic compositions; textile finishing; tanning and finishing leather; laboratory reagent. Grades—tech.; U.S.P.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Trojan Powder Co, Allentown, Pa	45201
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541

SODIUM PENTACHLOROPHENATE

Brownish gray powder. non-volatile at ordinary temperatures. Practically odorless. Non-hygroscopic under ordinary conditions. Uses—manufacture of termite-resistant cellulose insulating board and for control of microbiological activity in paper, paperboard, leather, adhesives, latex and cold water paints; for control of sap stain in green lumber; and for control of slime and algae in water systems where the water is not used for drinking or bathing.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Dow Chem Co, Midland, Mich	Midland 500
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo	Laclede 2201

SODIUM PENTOBARBITAL

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
†Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
Lemke, B L, & Co Inc, 199 Main St, Lodi, N J	Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Sumner Chem Co, Inc, 52 Wall St, N Y	Digby 4-3880

†Amer Pharmaceutical Co, N Y
Bodman, F L, Inc, Phila, Pa

SODIUM PERBORATE (Perborin, Perborax, Peroxydol)

$NaBO_3 4H_2O$. White granules or crystalline powd. Decomposes on exposure to heat or moisture. Sol. alkalies, glycerol, water. Uses—mfr. hydrogen peroxide, detergent soaps, dental compositions, hair bleaches, toilet preparations, cosmetics; laboratory and laundry reagent; general oxidizing agent for chemical purposes; bleaching textiles, fats, oils, bones, gelatin, straw, ivory, sponges, bristles, resins, waxes etc.; detergent for treating textiles; dyeing and printing textiles; as deodorant, germicide, antiseptic and bactericide; general bleaching agent; electroplating reagent; recover soluble starch; to gloss starch for froning; in medicine. Grades—tech.; U.S.P.; C.P.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Elbert & Co, Inc, 2 Bway, N Y	Digby 9-2670
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712

CMC Chemicals
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Perchlorethylene
Trichlorethylene
Tropical Bleaching Powder (Stabilized)
Chloroform
Sal Ammoniac
Ammonium Carbonate
Ammonium Bicarbonate
Sodium Sulphide
Sodium Hydrosulphite

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SODIUM PERBORATE (cont'd)

Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Shegard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
McClellan, G C, & Co, Boston, Mass	

SODIUM PERBORATE MONOHYDRATE

†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712

SODIUM PERCHLORATE

†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

SODIUM m-PERIODATE

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

SODIUM p-PERIODATE

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343

SODIUM PERMANGANATE

$NaMnO_3H_2O$. M.W. 195.97. Purple or reddish-black crystals which decompose when heated. Sol. alcohol, ether. Uses—as a reagent and oxidizing agent; in medicine.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
†Carus Chem Co Inc, Union & 8 Sts, La Salle, Ill	La Salle 1500
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712

SODIUM PEROXIDE (Oxone, Sodium Binoxide, Sodium Dioxide, Sodium Superoxide)

Na_2O_2. Yellowish white, amorp. powd. Sp. gr. 2.805. Decomposes on heating. Sol. cold water. Uses—mfr. peroxides, organic chemicals, intermediates, deterative compositions, medicinal soaps, pharmaceutical derivatives; dyeing and printing textiles; laboratory reagent; general disinfectant; as deodorant, germicide, antiseptic, oxidizing and bleaching agent for various purposes; purifying air in hospitals; disinfecting drinking water; generating oxygen various purposes—in submarines, diving bells, etc.; bleaching oils, fats, textiles, feathers, hair, bones, ivory, sponges, bristles, straw, etc.; in medicine. Grades—C.P.; tech.; dental.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120

SODIUM PERSULFATE

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723

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Ethyl Glycollate — Sodium Persulfate
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CITY CHEMICAL CORP.

132 W. 22nd St. New York 11, N.Y. WA 9-2723

SODIUM PHENATE (Sodium Carbolate)

NaC_6H_5O. M.W. 116.0. Colorless hygroscopic prod. Sol. water. Uses—as an intermediate; as an antiseptic.

†Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030

SODIUM PHENOL SULFONATE (Sodium Sulfocarbolate)

$HOC_6H_4SO_3Na.2H_2O$. M.W. 242.13. White, odorless crystals; slightly bitter taste; effluorescent. Use: medicine.

†Dow Chem Co, Midland, Mich	Midland 500

SODIUM PHENYL ACETATE

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Benzol Prods Co, 237 South St, Newark, N J	Market 2-6141
†Burke, Edward S, 65 Pine St, N Y	Bowling Green 9-5785
†Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Trubek Labs, Inc, E Rutherford, N J	

SODIUM o-PHENYLPHENATE

o—$C_6H_5.C_6H_4ONa.4H_2O$. M.W. 264.5. White or light buff flakes or powd. with a slightly soapy odor. Sol. water, alcohol, acetone; insol. most organic solvents. Uses—as a germicide; fungicide.

†Dow Chem Co, Midland, Mich	Midland 500

MONSANTO
SODIUM PHOSPHATES

Mono Sodium Phosphate
Di Sodium Phosphate — Tri Sodium Phosphate
Sodium Tripoly Phosphate
Tetra Sodium Pyrophosphate — Acid Sodium Pyrophosphate
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$(NaPO_3)_6$. M.W. 611.82. Glassy plates, flakes or agglomerates. Very soluble in water; reverts slowly to orthophosphate in cold water solutions, more rapidly at elevated temperatures or in acid or alkaline solutions. Uses—water softening, leather tanning, manufacture of process cheese, oil well drilling muds.

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†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Blockson Chem Co, Patterson Rd, Joliet, Ill	Joliet 2-6601
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610

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SODIUM TRIPOLYPHOSPHATE
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SODIUM TETRAPHOSPHATE

SODIUM m-PHOSPHATE (cont'd)

Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

SODIUM PHOSPHATE, Di-Sodium (Sodium Phosphate Dibasic, Disodium Ortho-Phosphate, Hydrodisodium Phosphate)

$Na_2HPO_4.12H_2O$. Colorless, transparent cryst. Sp. gr. 1.5235. M.P. 35°C. Loses water at 100°C. Sol. water. Uses—mfr. dyestuffs, pharmaceuticals, baking powd., paint pigments; as chemical and laboratory reagent; discharge in pottery and porcelain glazes; in galvanoplastic work; soldering enamels; dyeing and printing textiles; fireproofing textiles, wood, paper, etc.; tanning leather; weighting silk; in medicine. Grades—U.S.P.; tech.; pure granular, twice purified; cryst. or dried.

†Amor Agricultural Chem Co, 50 Church St, N Y	Barclay 7-1400
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Blockson Chem Co, Patterson Rd, Joliet, Ill	Joliet 2-6601
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670

VC CHEMICALS

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Disodium Phosphate *(Technical and Drug Grades)*
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Tetrasodium Pyrophosphate
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Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-3610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-5113
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif	Kimball 2214
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Opalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa	McKeesport 4-4278
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
United Sterling Corp, 37 E 28 St, N Y	Murray Hill 9-2686
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

Globe Chem Co, Cincinnati, O
Howard, Geo E, Harrisburg, Pa
Hughes Chem Supply Co, Inc, Baltimore, Md
Palmer Supplies Co, Cleveland, O
Preiser, B, & Co, Charleston, W Va
Rodgers Chem Co, Inc, Pittsburgh, Pa
Steidle Chem Co, Louisville, Ky
Western Pa Chem Co, Inc, Altoona, Pa

SODIUM PHOSPHATE HEMIBASIC

$NaH_2(PO_4)_2$. Hygroscopic strongly acid salt, soluble in water. Uses—treating silage, contact tinning of brass, boiler water treatment.

Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541

BLOCKSON CHEMICAL CO.
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Joliet Phone 2-6601
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SODIUM PHOSPHATE, Mono-Sodium (Tasteless Salt, Sodium Phosphate Monobasic, Sodium Acid Phosphate, Monosodium Orthophosphate, Sodium Biphosphate)

$NaH_2PO_4.H_2O$. Anhydrous NaH_2PO_4. Colorless cryst. Sp. gr. 2.048. Loses water at 200°C. Sol. water. Uses: mfr. baking powd.; as laboratory reagent; electroplating reagent; in medicine. Grades—tech.; recrystallized; pure; C.P.; U.S.P.

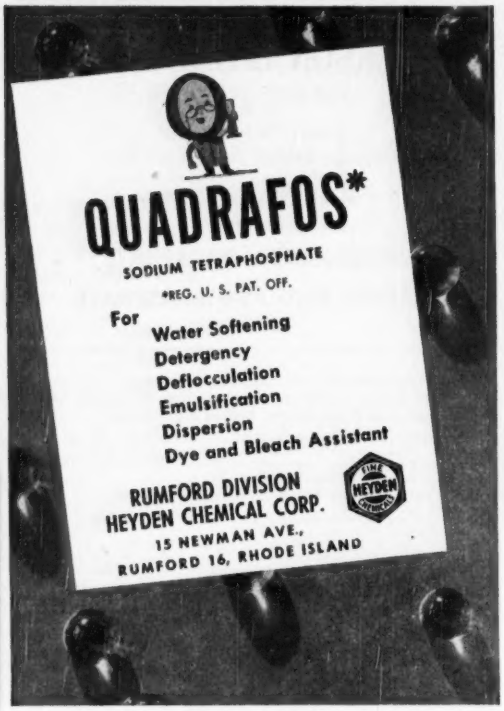
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Blockson Chem Co, Patterson Rd, Joliet, Ill	Joliet 2-6601
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-3610
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif	Kimball 2214
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa	McKeesport 4-4278
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

Chem Supply Co, Neenah, Wisc
Globe Chem Co, Cincinnati, O
Palmer Supplies Co, Cleveland, O
Rodgers Chem Co, Inc, Pittsburgh, Pa
Steidle Chem Co, Louisville, Ky

SODIUM PHOSPHATE TETRA

$Na_4P_2O_{13}$. Hygroscopic, glassy plates, beads or powder. Very sol. water. Uses: industrial and municipal water treatment; dishwashing and detergent compounds; leather tanning; oil well drilling muds; purification of clay.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Blockson Chem Co, Patterson Rd, Joliet, Ill	Joliet 2-6601
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Ferguson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-3610
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
†Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa	McKeesport 4-4278
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267



SODIUM PHOSPHATE TETRA (cont'd)

†Rumford Div, Heyden Chem Corp, Rumford, R I	East Providence 1-2880
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
Beechem Labs, St Johns, Mich	Port Huron Detergent Co, Inc, Port Huron, Mich
H & W Chems, Inc, Rochester, NY	
Palmer Supplies Co, Cleveland, O	Rodgers Chem Co, Inc, Pittsburgh, Pa

SODIUM PHOSPHATE, Tri-Sodium (Sodium Phosphate Tribasic, Trisodium Orthophosphate, Sorensen's Phosphate)

$Na_3PO_4.12H_2O$. Colorless cryst. Sp. gr. 1.644. M.P. 73.4°C. Sol. water. Uses—mfr. water softeners, boiler and cleaning compounds, photographic developers; as laundry reagent; tanning leather; clarifying sugar and liquors. Grades—tech.; C.P.; highest purity.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Blockson Chem Co, Patterson Rd, Joliet, Ill	Joliet 2-6601
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104

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TRISODIUM PHOSPHATE . . . four grades to suit your requirements—fine, standard, medium, coarse

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Aluminum Sulfate
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B & A LABORATORY REAGENTS & FINE CHEMICALS
Offices in Principal Cities—See Directory ad.

BASIC CHEMICALS — FOR AMERICAN INDUSTRY

GENERAL CHEMICAL DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.
Cable Address: "LYCURGUS" NEW YORK, N. Y.

SODIUM PHOSPHATE, Tri-Sodium (cont'd)

Chemstar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 9-2670
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif	Kimball 2214
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200

"AA QUALITY" CHEMICALS

Backed by over seventy-five years' manufacturing experience, "AA Quality" Chemicals are noted for exceptional purity and uniformity. Your inquiries are solicited, and your specific needs will receive prompt and co-operative attention.

"AA QUALITY" CHEMICAL PRODUCTS INCLUDE:

Ammonium Fluosilicate
Bone Ash
Bone Black (Animal Charcoal)
Bone Black Pigments ("Cosmic" Blacks)
Bone Oil
Carbonate of Ammonia
Dicalcium Phosphate
Disodium Phosphate (Crystalline)
Disodium Phosphate (U.S.P.)
Ferro Phosphorus
Gelatin (Photographic, Capsule & Edible)
Magnesium Fluosilicate
Monocalcium Phosphate ("Crystal" Phosphate)
Phosphoric Acid (Reagent Grade)
Phosphoric Acid (85% USP Syrupy)
Phosphoric Acid (Pure Food Grade)
Phosphoric Acid Paste
Phosphorus, Elemental
Phosphorus, Red
Phosphorus Pentasulphide
Phosphorus Sesquisulphide
Precipitated Bone Phosphate
Salt Cake
Sodium Silicofluoride
Sulphuric Acid
Trisodium Phosphate
Zinc Fluosilicate
Phos-Feed (Mineral Mixture)

The AMERICAN AGRICULTURAL CHEMICAL Co.
50 Church Street, New York 7, N. Y.

Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa	McKeesport 4-4278
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Starkweather, J V, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

MAAS ★ PHOSPHATES

TRISODIUM PHOSPHATE
Crystal and Anhydrous

ARMOFOS
Sodium Tripolyphosphate

MONOSODIUM PHOSPHATE
Anhydrous

DISODIUM PHOSPHATE
Anhydrous

SODIUM ACID PYROPHOSPHATE

PHOSPHORIC ACID
75% and 85% NF

TETRASODIUM PYROPHOSPHATE
Crystal or Anhydrous Powder and Granular

A. R. MAAS CHEMICAL CO.
DIVISION OF VICTOR CHEMICAL WORKS
4566 SO. ARDINE ST., SOUTH GATE, CALIFORNIA

SODIUM PHOSPHATE, Tri-Sodium (cont'd)

Armstrong Chem Co, Inc, Canandaigua, N Y
Braun Knecht Heimann Co, San Fran, Calif
Central Illinois Labs, Inc, Peoria, Ill
Damon Chem Co, Inc, Alliance, O
Globe Chem Co, Cincinnati, O
Great Lakes Chem Co, Chicago, Ill
H & W Chems, Inc, Rochester, NY
Heyman, N H, Inc, N Y
Hood Chem Co, Kansas City, Mo
Howard, Geo E, Harrisburg, Pa
Hughes Chem Supply Co, Inc, Baltimore, Md
Ideal Chem & Supply Co, Memphis, Tenn
Industrial Chem Co, Dayton, O
Interboro Chem Co, N Y
Kem Labs, Bronx, N Y
Leidy Chems Corp, Baltimore, Md
Merchants Prods Corp, Phila, Pa
Minnesota Chem Co, St Paul, Minn
Palmer Supplies Co, Cleveland, O
Phipps & Bird, Inc, Richmond, Va
Pioneer Salt Co, Phila, Pa
Port Huron Detergent Co, Inc, Port Huron, Mich
Preiser, B, & Co, Charleston, W Va
Rodgers Chem Co, Inc, Pittsburgh, Pa
Specialty Prods Co, Griffin, Ga
Staidle Chem Co, Louisville, Ky
Western Chems, Inc, Portland, Ore
Western Pa Chem Co, Inc, Altoona, Pa

SODIUM PHOSPHOTUNGSTATE

$7Na_2O \cdot 24WO_3 \cdot P_2O_5 \cdot nH_2O$. M.W. 6142 + nH_2O. Hot saturated solution produces colorless octahedral crystals. Sol. water; effluoresces in air. Uses: td form the tungstates and the acid; for fireproofing; for formation of brilliant lakes; in chemical analysis; in phosphors; for preparation of certain proteins, alkaloids.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

SODIUM PICRAMATE

$C_6H_2O_5N_3Na$. Colorless cryst. Uses—mfr. intermediates, organic chemicals.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121

SODIUM POLYSULFIDE

$(Na_2S)x$. M.W. (78.06)x. Uses: in mfg. of sulfur colors and dyes, pharmaceuticals, insecticides; in production of rubber substitutes and petroleum additives; in soaking of hides.

†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

SODIUM PROPIONATE

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

SODIUM PYROPHOSPHATE PEROXIDE

$Na_4P_2O_7 \cdot 2H_2O_2$. M.W. 334. White powder. Sol. water. Uses: metal cleanser, denture cleaner, detergent and bleaching agent.

Becco Sales Corp, Buffalo, N Y — Bedford 8300
†Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

SODIUM PYROPHOSPHATE, TETRA (Pyro)

$Na_4P_2O_7$. M.W. 266. Fine white powdered or granular material. Stable in cold water solutions, cold alkaline solutions; acidification causes breakdown. Uses: soap builder; water treatment; cleaning and detergent compounds; purification of clay; electroplating; bleaching of straw; ink eradicator; stabilizer for peroxide solutions.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Blockson Chem Co, Patterson Rd, Joliet, Ill — Joliet 2-6601
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789

SODIUM PYROPHOSPHATE, TETRA (cont'd)

Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
†Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif — Kimball 2214
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
†Sheffield Farms Co, Inc, Chemurgic Div, P O Box 630, Norwich, N Y — Norwich 915
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va — 2-0113
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Armstrong Chem Co, Inc, Canandaigua, N Y
Globe Chem Co, Cincinnati, O
Hughes Chem Supply Co, Inc, Baltimore, Md
Specialty Prods Co, Griffin, Ga
Steidle Chem Co, Louisville, Ky

MONSANTO
TRI SODIUM PHOSPHATE
TETRA SODIUM PYROPHOSPHATE
SODIUM TRIPOLY PHOSPHATE

Uniform high quality — prompt shipment service.

MONSANTO CHEMICAL COMPANY
Phosphate Division
St. Louis 4, Mo.

MONSANTO
CHEMICALS—PLASTICS

SERVING INDUSTRY... WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

SODIUM RESINATE

†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

SODIUM RICINOLEATE

$C_{17}H_{32}COONa$. White paste. Uses: mfr. special soaps; as an emulsifying agent.

†Baker Caster Oil Co, 119 Bway, N Y — Digby 9-0500
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

SODIUM SALICYLATE

$NaC_7H_5O_3$. White crystalline scales or powd., sweetish saline taste. Sol. water. Recrystallized for purification. Uses—in organic synthesis and medicine. Grades—U.S.P.; tech.; U.S.P. from oil wintergreen.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
†Dow Chem Co, Midland, Mich — Midland 500
European Chem Co Inc, 366 Bway, N Y — Berkman 3-6246

SALICYLATES

DOW

THE DOW CHEMICAL COMPANY
Midland Michigan

Producing over 600 Chemical Products

Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.

See listing ad for other products

MONSANTO SALICYLATES

Ammonium Salicylate, N. F.

Specifications: White crystalline powder; assay, 98.0% min.; solubility in water (1:5), complete, colorless; solubility in ethyl alcohol 95% (1:5), complete; conforms to N. F. test for heavy metals. No powder retained on 80-mesh screen.

Calcium Salicylate

Specifications: Fine white powder; solubility in water (1:50), complete, colorless; free salicylic acid, 0.25% max.

Lithium Salicylate, N. F.

Specifications: White or slightly grayish powder; assay 98.5% min.; solubility in water (1:20), complete, colorless; conforms to N.F. test for heavy metals.

Magnesium Salicylate

Specifications: Fine white powder; solubility in water (1:10), complete.

Methyl Salicylate, U. S. P.

Specifications: Clear, colorless liquid; assay 98.0% min.; solubility in 70% ethyl alcohol (1:7), complete; solubility in N KOH (1:10), complete; sp.g. 25°/25° C., 1.180-1.185; conforms to U.S.P. test for heavy metals.

Phenyl Salicylate, N. F. (Salol)

Specifications: White crystals; solubility in ethyl alcohol 95% (1:6), complete; m.p. 41.0° C. min.; conforms to N.F. tests for chloride, sulfate, free phenol, and free salicylic acid.

Potassium Salicylate

Specifications: White or very slightly pinkish powder, assay (dry basis), 99.0% min.; solubility in water (1:10), complete.

Sodium Salicylate, U. S. P.

Specifications: White powder or crystals; assay (as received) 99.5% min.; solubility in water (1:10), complete; solubility in ethyl alcohol 95% (1:10), complete; colorless or nearly colorless; conforms to U.S.P. tests for heavy metals and carbonizable impurities; trace max. powder retained on 60-mesh, 1.0% on 80-mesh, 2.0% on 100-mesh.

Strontium Salicylate, N. F.

Specifications: White crystalline powder; assay (as dihydrate), 99.0% min.; solution in water (1:30), complete; conforms to N.F. test for heavy metals and barium.

Salicylic Acid (Ortho-Hydroxybenzoic Acid)

Specifications of U.S.P. Grade: White needles or powder, 100-mesh; assay 99.5% min.; m.p. 158.0° C. min.; conforms to U.S.P. test for carbonizable substances; ash 0.05% max.; powder, 0.4% max. retained on 100-mesh.

Specifications of "B" Grade: White needles; assay 99.5% min.; m.p. 158.0° C. min.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division, St. Louis 4, Missouri

MONSANTO
CHEMICALS – PLASTICS

For address of nearest District Sales Office see ad in Catalog Section.

SODIUM SALICYLATE (cont'd)

Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

SODIUM SELENITE

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

SODIUM SESQUICARBONATE

The true Sesquicarbonate of Soda, $Na_2CO_3.NaHCO_3.2H_2O$. White, needle-like crystals, uniform composition, free flowing, no caking, completely soluble in water. Uses—laundry, textile, tanning, silk degumming, bath crystals, cream neutralization, general cleaning.

Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Upsico Lab, 20 E Pittsburg Blvd, McKeesport, Pa — McKeesport 4-4278
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Seaboard Industries, 195 Knox St, Paterson, N J — Armory 4-2294
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
†Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 3-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Empire Chem Corp, N Y
Palmer Supplies Co, Cleveland, O
Taussig, F H, Chems, N Y

SOLVAY PRODUCTS

SODIUM SESQUICARBONATE
(Snowflake* Crystals)
*Trade Mark Reg. U.S. Pat. Off.

Write for complete information on this and other Solvay Products in which you may be interested.

SOLVAY SALES DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street, New York 6, N. Y.

BRANCH SALES OFFICES
Boston • Charlotte • Chicago • Cincinnati • Cleveland • Detroit • Houston
New Orleans • New York • Philadelphia • Pittsburgh • St. Louis • Syracuse

SODIUM SESQUISILICATE

$Na_2SiO_3.5H_2O$. Approximately 36% Na_2O, 24% SiO_2. White granular free-flowing powder. Completely soluble in water. M. P. 90-95°C. Produces pH of 11.6 at a concentration of .1% by weight. Uses—heavy duty cleaning, metal, laundries, ingredient in specially fabricated cleaning compounds.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
†Diamond Alkali Co of Calif, 1269 66 St, Emeryville, Calif — Olympia 2-1169
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Phila Quartz Co, 1163 Public Ledger Bldg, Phila, Pa — Market 7-7200
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

†Kem Labs, Bronx, N Y
Merchants Prods Corp, Phila, Pa

SODIUM SILICATE (Water Glass, Soluble Glass, Liquid Glass)

$3Na_2O.2SiO_2$ to $Na_2O.3.9SiO_2$ (a) Anhydrous glass in lump or powder form requiring special treatment for solution in water. (b) Corresponding liquids from 38° Baume to 69° Baume, water white and cloudy. (c) Hydrated powders quickly soluble in water. M. P. (liquidus temperature) 800 to 880° Centigrade except 1100° for $Na_2O.3.98SiO_2$. Uses—manufacture insoluble silicates, silica gel, boiler compounds adhesives preparations, paperboard products, corru-

Cowles

DETERGENT SILICATES

DRYMET*
Anhydrous Sodium Metasilicate

DRYSEQ*
Anhydrous Sodium Sesquisilicate

DRYORTH*
Anhydrous Sodium Orthosilicate

CRYSTAMET*
Pentahydrate Sodium Metasilicate

*Reg. U. S. Pat. Off.

MANUFACTURED BY
COWLES CHEMICAL COMPANY
7016 EUCLID AVENUE • CLEVELAND 3, OHIO
STOCKS IN PRINCIPAL CITIES

PQ
SILICATES
LIQUID POWDER SOLID
(Drums, Barrels, Bags, Tank Cars)

PHILADELPHIA QUARTZ CO.

BRANDS: 50 which range from $3Na_2O{\cdot}2SiO_2$ to $Na_2O{\cdot}3.75SiO_2$. Sodium metasilicate, sodium sesquisilicate, also potassium silicates.

USES: Adhesives, binders, sizes, gels, inhibitors, coagulating and deflocculating agents, detergents and protective coatings.

SERVICE: Nine plants. Stocks in over 65 cities. Technical advice. Ask for catalog #17-1.

1168 Ledger Building, Phila. 6

SODIUM SILICATE (cont'd)

gated paper, fiberboard products, wallboard, asbestos products, veneer products, flooring, laying parquets flooring, stainproofing lumber, greaseproofing, paper, sizing and coating paper, testing and sizing barrels, soaps, detergents, cleaners, boiling-off cottons, weighting silks, peroxide bleaching process, bleaching jute, fireproofing textiles and curtains, resist in dyeing and printing fabrics, purifying oils and fats, refining petroleum, binders for various processes, abrasive wheels, stove, furnace, china pipe, acidproof, glass cements; glazing enamels; digester and acid concentrator linings; lining Bessemer converters; preservative coatings for cement and concrete; preserving eggs; tanning leather; cold water paint; waterproofing walls; thickener in ink. Grades-powder; solution; waterwhite, also various Baumes cloudy silicate.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360

SODIUM SILICATE
40° and 60°
CAUSTIC SODA SODA ASH
MINERAL SPIRITS
(Stoddard Solvent)
Export and Domestic Packing
CHAS. L. READ & CO.
120 Greenwich St., New York 6, N. Y.
WOrth 4-1131

Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
†Cowles Chem Co, 7016 Euclid Av, Cleveland, O	Henderson 1-3400
†Diamond Alkali Co of Calif, 1269 66 St, Emeryville, Calif	Olympia 2-1169
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121

SODIUM SILICATE (cont'd)

Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
†Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa	Market 7-7200
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I	Williams 1-0812
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
Black Hills Chem Co, Rapid City, S Dakota	Marlowe-Van Loan Corp, High Point, N C
Cascade Chem Co, Seattle, Wash	Merchants Prods Corp, Phila, Pa
Damon Chem Co, Inc, Alliance, O	Rodgers Chem Co, Inc, Pittsburgh, Pa
Hood Chem Co, Kansas City, Mo	Van Waters & Rogers, Inc, Portland, Ore

SODIUM m-SILICATE

$Na_2SiO_3 \cdot 5H_2O$ (29.2% Na_2O, 28.7% SiO_2; melting point 71.8°C) and anhydrous Na_2SiO_3 (51.7 Na_2O, 46.2/SiO_2; melting point 1088°C) Anhydrous white in color; hydrates are white granular or crystal. Hydrates very soluble in water; anhydrous slowly soluble in water. Uses—as a cleansing agent; as a detergent in kier boiling of cotton goods, de-inking paper, in laundries

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
†Cowles Chem Co, 7016 Euclid Av, Cleveland, O	Henderson 1-3400
†Diamond Alkali Co of Calif, 1269 66 St, Emeryville, Calif	Olympia 2-1169
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
†Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa	Market 7-7200
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y	Stillwell 4-0500
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
Black Hills Chem Co, Rapid City, S Dakota	†Mertz, L Carlton, Co, Chicago, Ill
Merchants Prods Corp, Phila, Pa	

SODIUM o-SILICATE

Na_4SiO_4. White, free-flowing granules. Sol. water. Uses—detergent in metal cleaning.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
†Cowles Chem Co, 7016 Euclid Av, Cleveland, O	Henderson 1-3400
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100

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SODIUM o-SILICATE (cont'd)

†Dow Chem Co, Midland, Mich	Midland 500
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y	Stillwell 4-0500
Black Hills Chem Co, Rapid City, S Dakota	†Mertz, L Carlton, Co, Chicago, Ill
Merchants Prods Corp, Phila, Pa	

SODIUM SILICOFLUORIDE (Salufer, Sodium Fluosilicate)

Na_2SiF_6. White, odorless, amorp. powd. Sp. gr. 2.755. Decomposes at red heat. Very slightly sol. cold water. Uses—mfr. ceramic glazes, glass (opal), artificial marble; as ingredient of insecticides; rodent and insecticide destroyers; laundry scouring agent; in medicine. Poisonous. Grades—tech., C.P.

Aceto Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
†Amer Agricultural Chem Co, 50 Church St, N Y	Barclay 7-1400
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Blockson Chem Co, Patterson Rd, Joliet, Ill	Joliet 2-6601
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
†Davison Chem Corp, 101 N Charles St, Baltimore, Md	Saratoga 3900

BLOCKSON CHEMICAL CO.

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Joliet Phone 2-6601
Chicago Phone Bishop 2-1230
MANUFACTURERS

SODIUM SILICOFLUORIDE

SODIUM SILICOFLUORIDE (cont'd)

†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803

SODIUM SILICO FLUORIDE

— • —

POTASSIUM SILICO FLUORIDE

FAESY & BESTHOFF INC. WORTH 4-8585
325 Spring St., New York 13, N.Y.
Plant and warehouse: Hicksville, L.I.

Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
†Sundheimer, Henry, Co, 103 Park Av, N Y	Murray Hill 5-4214
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y	Stillwell 4-0500
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
†Baugh Chem Co, Baltimore, Md	Sergeant, E M, Pulp & Chem Co, Inc, N Y
Kem Labs, Bronx, N Y	Van Waters & Rogers, Inc, Portland, Ore

SODIUM SILICO FLUORIDE

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Mfrs. Sales Agents
HENRY SUNDHEIMER CO.
103 Park Ave. New York 17, N.Y.
Telephones: MUrray Hill 5-4214, 4215

SODIUM STANNATE

$Na_2SnO_3.3H_2O$. Grayish-white hydroscopic cryst. or powd. Sol. water. Absorbs CO_2 from air. Decomposed by acids and many salts. Uses—mfr. glaze, ceramics; electro tinning; textile fireproofing; mordant in printing and dyeing fabrics. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Metal & Thermit Corp, 100 E 42 St, N Y	Murray Hill 6-5300
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

SODIUM STEARATE

$NaC_{18}H_{35}O_2$. White, amorp. powd., fatty odor, soapy feel. Sol. hot water, and hot alcohol. Uses—waterproofing agent; in medicine. Grades—tech.

†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202

SODIUM STEARATE (cont'd)

Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Leffingwell Chem Co, P O Box 191, Whittier, Calif	Oxford 42-653
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

SODIUM SULFADIAZINE (Sodium 2-Sulfanilamidopyrimidine)

M.W. 272.27. White crystalline powder, very soluble in water, soluble in alcohol; pH of 10% solution, 9.3 to 9.8. May be assayed by diazotization. Aqueous solution absorbs carbon dioxide from air with precipitation of sulfadiazine. Uses—same as sulfadiazine. In jected intravenously to give immediate high blood levels of the drug in emergency cases.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120

SODIUM SULFAPYRIDINE

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200

SODIUM SULFATE (Salt Cake)

Intermediate product in manufacture of sodium sulfate, containing Na_2SO_3 (principally), $NaHSO_3$, $CaSO_4$, $Fe_2(SO_4)_3$, $MgSO_4$, SiO_2 and NaCl. As anhydrous sodium sulfate Na_2SO_4. White, solid crystalline. Sp. gr. 2.671 (20°C.). M.P. 884°C. Sol. water. Uses—mfr. water glass, plate and window glass, sodium salts, ceramic glazes, ultramarine, paper pulp, soap, freezing mixtures, detergent compositions; diluting dyestuffs. Grades—glassmakers' (free from iron); tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Amer Potash & Chem Corp, 122 E 42 St, N Y	Murray Hill 5-7142
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
†Consolidated Chem Industries, Inc, 640 Mellie Esperon Bldg, Houston, Texas	CA2371
†Cornwell Chem Corp, Cornwells Hgts, Pa	Cornwells 0302
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100

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SALT CAKE

(Sodium Sulfate, Anhydrous, Technical)

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†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†Ethyl Corp, 100 Park Av, N Y	Oregon 9-2000
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Golwynne Chems Corp, 420 Lexington Av, N Y	Murray Hill 6-3600
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Hunt, Philip A, Co, Palisades Park, N J	Leonia 4-4000
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Mercantile Import & Export Corp, 21 E 40 St, N Y	Lexington 2-2445
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich	Jordan 4-6500
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
★†Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

†Bay Chem Co, New Orleans, La	Sergeant, E M, Pulp & Chem Co, Inc, N Y
Empire Chem Corp, N Y	Western Pa Chem Co, Inc, Altoona, Pa
Globe Chem Co, Cincinnati, O	White Star Chem Corp, Jacksonville, Fla

SODIUM SULFATE CRYSTALS (Glauber's Salt)

a. Na_2SO_4. b. $Na_2SO_4.7H_2O$ c. $Na_2SO_4.10H_2O$. White cryst. or anhydrous white powd. Sp. gr. a. 2.671 (20°C.). b. 1.492. c. 1.462. M.P. a. 884°C. b. 32.38°C. c. 32.38°C. Sol water. Uses—mfr. sodium salts, sodium carbonate, washing sodas, paper pulp, ultramarine, mineral and lake colors, Prussian blue, printing inks, soaps, mineral waters, turkey red oil, freezing mixtures in rfrigeration; as drying agent (anhydrous form); assist in dyeing and printing textiles; mordant in dyeing cotton; bleaching fabrice; tanning leather; diluting dyes; laboratory reagent; veterinary drug; in medicine. Grades—tech.; C.P.; U.S.P.; needle cryst.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
†Cornwell Chem Corp, Cornwells Hgts, Pa	Cornwells 0302
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†Natural Prods Refg Co, 902 Garfield Av, Jersey City, N J	Bergen 3-4060
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600

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18° 20°
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SODIUM SULFIDE (cont'd)

†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
†Chem Prods Corp, Cartersville, Ga — Cartersville 798
Chicago Copper & Chem Co, 127 & Division Sts, Blue Island, Ill — Blue Island 606
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
†Dow Chem Co, Midland, Mich — Midland 500
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585

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CAUSTIC POTASH
CAUSTIC SODA
SODA ASH
SODIUM SULFIDE
SODIUM BENZOATE

DUFF CHEMICAL CO., Inc.
342 Madison Avenue — New York 17, N. Y.
Telephone: MU 7-6502 — Cable Address: CHEMDUF

Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

SODIUM SULFATE CRYSTALS (cont'd)

†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Iowa Soda Prods Co, Council Bluffs, Iowa — Iowa Soda Prods Co, Council Bluffs, Iowa

SODIUM SULFATHIAZOLE

$C_9H_8N_3O_2S_2Na$. M.W. 277. White to faintly yellowish white powder or granules. Affected by light. Use: pharmaceutical.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660

SODIUM SULFANILATE (Sodium Anilinesulfonate, Sodium Para-Aminobenzene Sulfonate)

$NaC_6H_4(NH_2)SO_3O + 2H_2O$. White, crystalline leaflets. Sol. water. Uses: in organic synthesis; in medicine. Grades—tech.

†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600

SODIUM SULFIDE (Sodium Sulfuret)

a. Na_2S. b. $Na_2S.9H_2O$. Clear, colorless, deliq. cryst. Sp. gr. 1.856. Infusible. Sol. water; slightly sol. alcohol. Uses—mfr. sulfur dyes, intermediates, organic chemicals, paper pulp, glazed kid, insecticidal compositions, sheep dips; depilatory agent in preparing hides; denitrating rayon; ingredient of dye liquor in dyeing textiles; as solvent; cleaning fabrics; calico printing; sulfiding oxidized lead and copper ores preparatory to flotation; laboratory and photographic reagent; solvent for gold in metallurgy of gold ores; oxidizing metals and electroplating reagent; engraving and lithography. Grades—60% fused and broken; 30% cryst.; reagent.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031

SODIUM SULFIDE
Flake and Solid

also
SODIUM SULFHYDRATE
AMMONIUM SULFIDE
●
BARIUM CARBONATE
BARIUM CHLORIDE
Crystal and Anhydrous
BARIUM SULFIDE

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BARIUM CARBONATE
BARIUM CHLORIDE
BARIUM STEARATE
BARIUM SULFIDE

CHICAGO COPPER & CHEMICAL CO.
(MANUFACTURERS)
BLUE ISLAND, ILLINOIS
(INCORPORATED 1912)

SODIUM SULFIDE (cont'd)

Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536

SODIUM SULFIDE

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Producing over 600 Chemical Products

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See listing ad for other products

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
†Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Sodium Sulphide
(Flaked or Fused)

Sodium Sulphydrate

R. W. GREEFF & CO., INC.
10 Rockefeller Plaza, New York 20, N. Y.
2205 Tribune Tower, Chicago, Ill.

SODIUM SULFIDE (cont'd)

†Arlin Chem Co, Elizabeth, N J
Enco Chem Corp, N Y
Marble-Nye Co, Worcester, Mass
Rimco Trading Corp, N Y
Sergeant, E M, Pulp & Chem Co, Inc, N Y
Southern Dyestuff Corp, N Y
Tobey Chem Co, N Y
Wilkoff, David L, Co, N Y

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Sodium Sulfhydrate, flake and liquid
Sodium Sulfide, flake and solid
Sodium Tetrasulfide, 40% solution

HOOKER ELECTROCHEMICAL CO.
4715 Buffalo Ave., Niagara Falls, New York
New York, N.Y. • Tacoma, Wash. • Wilmington, Calif.

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HOOKER CHEMICALS

For listings of other products see Catalog Section ad. ⓑ

SODIUM SULFITE

a. Na_2SO_3. b. $Na_2SO_3.7H_2O$. Colorless efflorescent cryst. Sp. gr. a. 2.6334. b. 1.561. M.P. a. 150°C. b. loses water at 150°C. Decomposes on further heating. Uses—mfr. sulfite cellulose, sodium thiosulfate, dyestuffs, intermediates, organic chemicals; bleaching delicate textiles; general chemical reducing agent; general preservative; antichlor to remove chlorine from textiles, paper, etc.; photographic developer; preserving sugar syrups, foods, meats; treating rubber latex; sterilizing beer kegs; silvering glass mirrors; photographic dry powd.; C.P.; U.S.P.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-8220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

SANTOSITE
(Sodium Sulfite Anhydrous, Technical)

Typical Analysis: Tan to slightly pink crystalline powder; assay (Na_2SO_3) 96% solution, filtrate from a 10% solution in water is not darker than APHA 250 max.

General Information: Used as a depressant in ore flotation; rubber, paper and cordage mfg.; in tanning; for the removal of oxygen from boiler feed water; for presoaking of ground wood billets; for the semi-chemical pulping of wood and straw and the retting of flax.

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Organic Chemicals Division
St. Louis 4, Mo.
Santosite: Reg. U.S. Pat. Off.

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For address of nearest District Sales Office see ad in Catalog Section.

Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5805
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif — Kimball 2214
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Opalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa — McKeesport 4-4278
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267

- SODIUM HYPOSULFITE *"Diamond" & Anhydrous*
- SODIUM SULFITE *Anhydrous Photo & Technical*
- ARMOL *(Monomethyl Paramidophenol Sulfate)*
- SODIUM CARBONATE *Monohydrate*
- ACETIC ACID *Glacial & 80%*
- HYDROQUINONE

A Complete line of photographic chemicals

A. R. MAAS CHEMICAL CO.

DIVISION OF VICTOR CHEMICAL WORKS
4566 SO. ARDINE ST., SOUTH GATE, CALIFORNIA

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Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770

Chem Supply Co, Neenah, Wisc
Norman-Willets Co, Chicago, Ill
Steidle Chem Co, Louisville, Ky
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SODIUM SULFITE—uniformly high assay (minimum 98½%)

AMMONIUM SULFITE • POTASSIUM SULFITE • CALCIUM SULFITE • SODIUM BISULFITE • MONOETHANOLAMINE SULFITE • POTASSIUM METABISULFITE • SODIUM METABISULFITE

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Mallinckrodt St. St. Louis 7, Mo. — Philadelphia, Cincinnati, Cleveland — Mallinckrodt — MALLINCKRODT CHEMICAL WORKS — Chicago — 72 Gold St. New York 8, N. Y. — San Francisco, Los Angeles, Montreal

SODIUM SULFOCYANIDE (Sodium Thiocyanate, Sodium Sulfocyanate, Sodium Rhodanate, Sodium Rhodanide)

NaSCN. M.W. 81.07. Colorless or white amorp. powd. or heavy, deliq. cryst. M.P. 562.8°C. Sol. water, alcohol. Uses—dyeing and printing textiles; laboratory reagent; electroplating reagent; toxic insect spray; in medicine; in match-head compositions. Grades—tech. cryst. or dried; pure; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294

Baker's chemicals

ANALYZED REAGENTS — Baker's — FINE CHEMICALS

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C.P. — Purified — and Tech.

J. T. BAKER CHEMICAL CO.
PHILLIPSBURG, N. J.
New York — Philadelphia — Chicago

SODIUM 2, 4 ,5, 6-TETRACHLOROPHENATE

C_6HCl_4ONa. M.W. 253.6. Light-tan to nearly white solid with a slight characteric odor. Sol. water, alcohol, acetone; insol. most other organic solvents. Uses—as a fungicide for control of molds and fungi on wood products. Grades—chips.

†Dow Chem Co, Midland, Mich — Midland 500

SODIUM TETRA IODO-PHENOLPHTHALEIN

†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

SODIUM TETRASULFIDE

Na_2S_4. M.W. 174. Clear, deep red water solution. Uses: soaking of hides and skins prior to unhairing, reduction of organic nitro bodies, insecticide and fungicide for fruit tree spray, ore flotation reagent, reduction of cyanide plating baths, mfg. of sulfur dyes.

★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

SODIUM THIOGLYCOLATE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071
†Humphrey-Wilkinson, Inc, De Vine St, North Haven, Conn — New Haven 2-7771
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Halby Chem Co, Inc, Wilmington, Del

SODIUM TITANATE

★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

SODIUM TOLUENESULFONATE

$C_7H_7SO_3Na$. M.W. 194.12. White to cream colored powder. Sol. water. Uses: hydrotropic solvent.

†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

SODIUM-2,4,5-TRICHLOROPHENATE

$Cl_3C_6H_2ONa.5H_2O$. M.W. 246.5. Buff to brown-colored flakes and fines. Sol. acetone, alcohol, water. Uses: preservative in animal glues and casein; as mold preventative.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500

SODIUM TRIFLUOROACETATE

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

SODIUM TRIPOLYPHOSPHATE

$Na_5P_3O_{10}$. M.W. 367.93. White, free flowing powder. Sol. water. Uses: water softening detergent; possibilities as peptising agent.

†Blockson Chem Co, Patterson Rd, Joliet, Ill — Joliet 2-6601
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585

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SODIUM ACID PYROPHOSPHATE
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SULFURIC ACID

Above materials offered in various grades to meet your most exacting requirements. Send your specifications.

SODIUM TRIPOLYPHOSPHATE (cont'd)

Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-5610
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif	Kimball 2214
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466

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MONOSODIUM PHOSPHATE (MSP)
TETRASODIUM PYROPHOSPHATE (TSPP)
DIPOTASSIUM PHOSPHATE (DKP)
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TRIPOTASSIUM PHOSPHATE (TKP)
PHOSPHORIC ACID 75 %,
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PHOSPHATE SLAG
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A white dry powder which, as a water solution, is useful as a bactericide, germicide, disinfectant or deodorant. The active ingredient is sodium hypochlorite.

*TM Reg. U.S. Pat. Off.

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★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill	Harrison 7-3541
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920

H & W Chems, Inc, Rochester, NY
Hughes Chem Supply Co, Inc, Baltimore, Md
Ideal Chem & Supply Co, Memphis, Tenn
Palmer Supplies Co, Cleveland, O
Pioneer Salt Co, Phila, Pa
Steidle Chem Co, Louisville, Ky

Victor

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and
TETRASODIUM PYRO PHOSPHATE
Anhydrous—Powdered and Granular

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SODIUM TUNGSTATE (Sodium Wolframate)

$Na_2WO_4+2H_2O$. Colorless cryst. Sp. gr. 3.259. Loses water at

Baker's chemicals

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SODIUM TUNGSTATE
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PHILLIPSBURG, N. J.
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100°C. and melts at 698°C. Sol. water. Uses—mfr. other tungstates, phosphotungstates, borotungstates, tungstic acid, oxides; fireproofing fabrics, etc.; laboratory reagent. Grades—cryst.; tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811

†Climax Molybdenum Co, N Y
Metallurg, Inc, N Y
†North Metal & Chem Co, York, Pa
†Shattuck, S W, Chem Co, Denver, Colo

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SODIUM UNDECYLENATE

$C_{11}H_{19}O_2Na$. M.W. 206. White powder. Sol. water, alcohol. Use: medicinal.

†Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500
†Chemo Pure Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Millmaster Chem Co, 420 Lexington Av, N Y	Lexington 2-5959

SODIUM URANATE

Na_2UO_4. Uses—mfg. yellow-green fluorescent glass, porcelain painting, enameling.

SODIUM URANATE (cont'd)

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Shattuck, S W, Chem Co, Denver, Colo

SODIUM o-VANADATE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Chem Commerce, Newark, N J
†Vanadium Corp of Amer, N Y

SODIUM XYLENESULFONATE

$C_8H_9SO_3Na$. M.W. 208.13. White to cream colored powder. Sol. water. Uses: hydrotropic solvent.

†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

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Sodium Xylenesulfonate, marketed under the name of Wyandotte Naxonate, has the unusual property of increasing the solubility of a great variety of organic chemicals in water. Naxonate is useful for attaining and maintaining the homogeneity of scouring and sizing compositions, printing pastes and spotting agents. It is finding application in solvent extractions and in speeding up chemical reactions in aqueous solutions.

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Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

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†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8832
†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

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Products exhibiting special solvent powers on cellulose acetate.

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Isopropyl Ether
Mesityl Oxide
Methyl Ethyl Ketone
Methyl Isobutyl Carbinol
Methyl Isobutyl Ketone
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Tertiary Butyl Alcohol
1, 2, 3—Trichloropropane

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Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
†Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400
Stoney-Mueller Inc, Page & Newark Ars, Lyndhurst, N J — Rutherford 2-7420
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
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Generally, non-flammable, liquid, chlorinated derivatives of the lower saturated and unsaturated paraffins. They are excellent solvents for a very wide and heterogeneous number of organicals—gums, esters, alkaloids, halogenated compounds, etc. See also: Methylene Chloride, Chloroform, Trichlorethylene, Tetrachlorethylene (Perchlorethylene), Tetrachlorethane, Pentachlorethane.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574

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Non-flammable; powerful rapid-penetrating solvents for fats, waxes, oils, and similar organic materials.

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Chloroform (U.S.P. and Technical Grades)
Trichlorethylene
Perchlorethylene

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Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
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Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770

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†Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y	Stillwell 4-0500
Wallen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
†Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700
Barada & Page, Inc, Kansas City, Mo	Dux Chem Co, Inc, Poughkeepsie, N Y
Braun Knecht Heimann Co, San Fran, Calif	†Farinella, Frank C, N Y
Chem Sales Corp, Buffalo, N Y	Minnesota Chem Co, St Paul, Minn
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Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Amer Mineral Spirits Co, 153 E 44 St, N Y	Murray Hill 2-6400
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
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Toluol, All Grades
Xylol, All Grades
Hi Flash Coal Tar Solvents

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Isobutyl Acetate
Isopropyl Acetate
Normal Butyl Acetate
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Ethyl Lactate
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Isobutyl Propionate
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Dinopol (Di n-Octyl Phthalate)
Dicarbitol Phthalate (Di-ethylene Glycol Mono-ethyl Ether Phthalate)
Adipol-BCA (Di-Butoxy Ethyl Adipate)
Ethox (Diethoxy Ethyl Phthalate)
Kapsol (Methoxy Ethyl Oleate)
Kronisol (Dibutoxy Ethyl Phthalate)
Kronitex AA (Tricresyl Phosphate)
Methox (Dimethoxy Ethyl Phthalate)
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Mineral Spirits
Hexane
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Stoddard Solvents
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Nitro-Cellulose — Film Solutions
Nitro-Cellulose — Cotton Solutions

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Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
†Fallek Prods Co Inc, 163 Bway, N Y	Barclay 7-7959
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481

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METHYL ETHYL KETONE
METHYL ISOBUTYL KETONE
DIACETONE ALCOHOL
DIISOBUTYL KETONE
ISOPHORONE

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ETHYL ACETATE
ISOPROPYL ACETATE
BUTYL ACETATE
AMYL ACETATE (all grades)
METHYL AMYL ACETATE

CARBON TETRACHLORIDE
TRICHLORETHYLENE
ETHYLENE DICHLORIDE
PERCHLORETHYLENE

BENZOL, TOLUOL, XYLOL
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LACQUER DILUENTS
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HEXANE, HEPTANE

DIBUTYL PHTHALATE
DIETHYL PHTHALATE
DIMETHYL PHTHALATE
TRICRESYL PHOSPHATE

METHANOL (all grades)
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NORMAL BUTYL ALCOHOL
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†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland	
†Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Nitrogen Prods Inc, 450 7 Av, N Y	Bryant 9-1045
Nitrogen Prods, Inc, Benzol Div, 926 Harrison Av, Kearny, N J	Bergen 4-5478
Page, Chas. & Co. Inc, 50 E 42 St. N Y	Vanderbilt 6-0903
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Read, Chas L. & Co, 120 Greenwich St, N Y	Worth 4-1151
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420
†Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600

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Coal Chems, Inc, Chicago, Ill
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C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J	Rutherford 2-7420
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
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Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
†Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
†Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J	Rutherford 2-7420
†Velsicol Corp, 330 E Grand Av, Chicago, Ill	Delaware 7-7383
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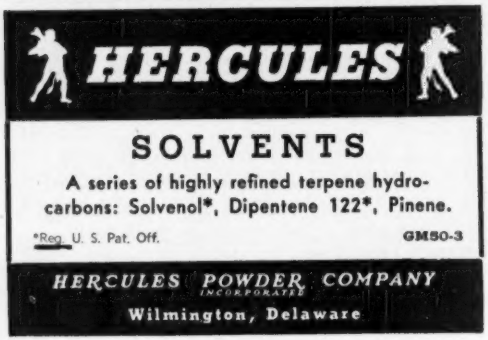
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†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600
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Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J	Rutherford 2-7420
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Weed-Treating Chems Co, 5137 Southwest Av, St Louis, Mo	Laclede 2201
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Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
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†Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241

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†Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

SORBITAN ESTERS

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Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
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SORBO (D-sorbitol solution)—70% aqueous solution of highest purity. For moisture-conditioning and synthesis.

ARLEX (Atlas commercial sorbitol solution)—Contains related polyhydric materials which make it non-crystallizing. For conditioning, flexibilizing.

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Industrial Chemicals Department
ATLAS POWDER COMPANY
Wilmington 99, Delaware

SORBO, ARLEX: Reg. U. S. Pat. Off.
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Derivatives of sorbitol, a hexahydric alcohol, and acids; includes true sorbitol esters, such as the hexaacetates, naphthenates, borates, and esters of the anhydro sorbitols, such as sorbitan monolaurate, sorbide monostearate. Products find use in mfr. plastics, resins and resinous materials (ester gums, etc.) for the paint, varnish, lacquer and paper coating industries, etc., cosmetics, pharmaceuticals, industrial emulsions, etc. See also Fatty Acid Esters.

†Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

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Refined flour made from soya bean. Uses—food preparations: sausage filler; health products, etc.

†Staley, A E, Mfg Co, Decatur, Ill — 4141
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†Glidden Co, Chicago, Ill

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Cake residue from soybean oil production. Uses—as live stock feed

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
†Staley, A E, Mfg Co, Decatur, Ill — 4141

Jett, Joseph C, Norfolk, Va

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Colorless liquid, sweet, pleasant odor; Sp. Gr. 0.770-0.800, boiling range 90% below 200°C; flash point 86°-105°F; Refractive Index 1.42. Grades—tech; Uses—Paint and varnish (solvent, thinner, turpentine substitute).

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Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 5331
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
†Petroleum By-Prods & Chem Co, 15 Whitehall St, N Y — Bowling Green 9-4991
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146

Kuhne-Libby Co, N Y — †Skelly Oil Co, Kansas City, Mo
Moser, George, & Son, Inc, Detroit, Mich

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

SPRUCE EXTRACT

Extract obtained from the Spruce tree. Uses—in tanning of leather. Grades—liq.; powd.

Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460

Enco Chem Corp, N Y — Heap, F J, & Son, Inc, Boston, Mass

STARCH CORN (Amylum Maranta)

$(C_6H_{10}O_5)n$. White, amorp. granules. Sp. gr. 1.498-1.513. Does not melt. Decomposes and burns when heated. Insol. Jellies with hot water. Uses—see Starch, Potato. Grades—powdered, pearl; tech.; edible; U.S.P.; laundry.

†Amer Maize Prods Co, 100 E 42 St, N Y — Murray Hill 3-9200
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
†Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Lo 7-4650
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Freilinghuysen Av, Newark, N J — Bigelow 3-0700
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
†Staley, A E, Mfg Co, Decatur, Ill — 4141
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

Buffalo Extract & Supply Co, Buffalo, N Y — Penick & Ford, Ltd, Inc, N Y
Marble-Nye Co, Worcester, Mass

STARCH POTATO

$(C_6H_{10}O_5)n$. White, amorp. powd. Uses—mfr. cold water glues, various adhesives, dextrin, chemical products, nitro-starch explosives, dynamites, face powd., cosmetics, toilet articles, glucose, malt sugar, caramel, distilled liquors, cattle foods, starch glazes, soap, colloidal and perfume preparations; as basic foodstuff; for culinary purposes; in food preparations, cocoas, chocolates, sausages, sweetmeats, sauces, baked products, ice-cream, confectionery, candies; pastries; thickener in making dyeing and printing positions for textiles; sizing and finishing textiles; sizing paper; laboratory reagent; bookbinding; in laundries; in medicine. Grades—domestic; imported.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860

Morningstar

AROOSTOOCRAT Brand POTATO STARCH

Finest grade of domestic white potato starch . . highest analyses . . uniform quality. Ideal for all food, technical, industrial uses. Write for full description, uses. Tell us about your needs.

MORNINGSTAR, NICOL, INC.

1770 Canalport Ave., Chicago 16 • 630 W. 51st St., New York 19

STARCH POTATO (cont'd)

†Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670

Chem Advance Corp, Phila, Pa — Marble-Nye Co, Worcester, Mass

STARCH RICE

Starch obtained from rice plant. Uses—mfr. food preparations, baked products, vegetarian foods, baking powd.; textile sizing and finishing. Grades—tech. (Oryza Sativa).

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
†Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749

STARCH SAGO

Starch obtained from the pith of various palms, chiefly the Metroxylon species in India. Uses—as a food.

Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
†Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
†Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

STARCH SWEET POTATO

$(C_6H_{10}O_5)n$. White, amorphous, tasteless and odorless powder of minute particle size, obtained from the American sweet potato (Ipomoea Batata). Rich in beta-amylose, it pastes and completely gelatinizes at 165° F., withstands prolonged cooking without thinning out, has colloidal properties akin to those of pectin and certain gums, and has pronounced ability to absorb and retain moisture. Uses—mfr. turkish paste, cream centers, marshmallow, caramels, fudge, and other confections; in mfr. cakes, breads, cake icings and other baked goods; in mfr. prepared baking flours; in mfr. sizes for laundry work, and for cotton and rayon, for paper, adhesives, toilet powders and other toilet preparations; in medicine. Grades—domestic only. High, medium and low viscosity. Paper-lined bbls., 240 lbs. net, 264 lbs gross.

†Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Chem Advance Corp, Phila, Pa

STARCH WHEAT

Starch obtained from wheat. See also Starch, Corn, Rice, etc. Grades—edible; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
†Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

STEARINE (Glyceryistearic Ester, Tristearin, Glycerol Tristearate)

$C_3H_5(C_{17}H_{35}COO)_3$. Colorless, odorless, amorp. powd. Sp. gr. 0.943 (65°C.). M.P. 71-71.5°C. Sol. ether, chloroform, carbon disulfide. Uses—mfr. candies, soaps, textile sizes, adhesive pastes, artificial ivory, metal polishes; waterproofing paper and artificial stone; impregnating fabrics; stuffing leather. Grades—various as oleostearine, lard stearine, etc., as to source.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†General Mills, Inc, Chem Div, 400 2 Av S, Minneapolis, Minn — Atlantic 1144
Marcus-Ruth-Jerome Co, 327 S LaSalle St, Chicago, Ill — Harrison 7-1760
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

STEARINE (cont'd)

Frey & Co, N Y — Tobey Chem Co, N Y
†Neatsfoot Oil Refgs Corp, Phila, Pa — Verde, E J, & Co, N Y
†Southern Cotton Oil Co, N Y

STEROLS

†Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184
†Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

†Blum, Paul, Co, Buffalo, N Y — †Glidden Co, Chicago, Ill

STODDARD SOLVENT

Colorless refined petroleum product specially fractionated for the dry cleaning industry. Specifications are outlined in the Bureau of Standards, booklet CS3-28. Flash Point shall not be lower than 100°F.; odor, sweet; shall show not more than extremely slight discoloration when clean copper strip is submerged in the solvent for three hours at 212°F. Distillation range, not less than 50% shall be recovered in the receiver when the thermometer reads 350°F. The dry or end point shall be not higher than 410°F. No tolerance shall be allowed above 410°F. See Benzine.

Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6400
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Stoney-Mueller Inc, Page & Newark Avs, Lyndhurst, N J — Rutherford 2-7420
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146

†Naph-Sol Refg Co, Cleveland, O — †Union Oil Co of Calif, Los Angeles, Calif
†Skelly Oil Co, Kansas City, Mo

STREPTOMYCIN

Empirical formula, $C_{21}H_{39}O_{12}N_7$. Antibacterial agent of high potency. Sol. water; insol. alcohol, other organic solvents.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660

Legion Export & Import Co, Inc, N Y — MacHale, A J, N Y

STRONTIUM (Metal)

Sr. Silver-white metal. Density 2.54, m.p. 900°C, b.p. 1000°C. Slowly soluble in water with formation of the hydroxide. Sol. alcohol and acids. Grade—technical.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

Mackay, A D, Inc, N Y — Var-Lac-Old Chem Co, N Y

STRONTIUM BROMIDE

$SrBr_2 + 6H_2O$. M.W. 355.57. Colorless crystals. Sol. alcohol, insol. ether. Melts when heated. Becomes anhydrous at 180°C. Uses—medicine.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Dow Chem Co, Midland, Mich — Midland 500
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Le Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Michigan Chem Corp, St Louis, Michigan — 41
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Barium & Chems, Inc, Willoughby, O

STRONTIUM CARBONATE

$SrCO_3$. M. W. 147.64. White pwdr. Uses—mfr. other strontium salts; mfr. iridescent glass; refining sugar; in medicine. Grades—natural, precipitated; tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490

STRONTIUM

STRONTIUM CARBONATE

Pure and Technical Grades

STRONTIUM SULPHATE (Celestite)

Guaranteed Strontium Sulphate, minimum 90.95%

(a)—Air floated 90% through 325 mesh

(b)—90% through 200 mesh

(c)—Concentrates



FOOTE MINERAL COMPANY
409 Eighteen West Chelten Bldg.
Philadelphia 44, Penna.

STRONTIUM CARBONATE (cont'd)

Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Barium & Chems, Inc, Willoughby, O

STRONTIUM CHLORIDE

$SrCl_2 + 6H_2O$. M.W. 266.65. White or colorless cryst. sol. alcohol, water. Uses—reagent; in pyrotechnics. Grades—Reagent; C.P.; anhydrous; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Braun Corp, 2260 E 15 St, Los Angeles, Calif — Trinity 6031
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490

†Barium & Chems, Inc, Willoughby, O

STRONTIUM CHROMATE

$SrCrO_4$. M.W. 203.6. Canary yellow. Heat resistant. Use: coloring of vinyl resins.

Fezandie & Sperrle, Inc, 205 Fulton St, N Y — Cortlandt 7-1460
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky — Shawnee 1206
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454

†Barium & Chems, Inc, Willoughby, O

STRONTIUM 2-ETHYL HEXOATE

Argus Chem Lab, Inc, Bklyn, N Y

STRONTIUM FLUORIDE

Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687

†Barium & Chems, Inc, Willoughby, O

STRONTIUM HYDROXIDE

$Sr(OH)_2 8H_2O$. M.W. 265.77. Colorless deliquescent crystals. Sp. gr. 1.396. M.P. 375°C. Uses—refining beet sugar, separation of crystallizable sugar from molasses.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
†Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

†Barium & Chems, Inc, Willoughby, O

STRONTIUM LACTATE

$Sr(C_6H_{10}O_5)_2 3H_2O$. M.W. 319.8. White gran. powd. Sol. alcohol, water, ether.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

STRONTIUM LAURATE

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981

STRONTIUM NAPHTHENATE

M.W. about 550. 16% metal. Buff solid; sol. selected organic solvents. Uses: water-proofer and stabilizer.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

Argus Chem Lab, Inc, Bklyn, N Y

STRONTIUM NITRATE

a. $Sr(NO_3)_2$. b. $Sr(NO_3)_2 4H_2O$. White powd. Sp. gr. a. 2.98, b. 2.249 (15.5°C.). M.P. a. 570° C. b. loses water on heating. Sol. water; very slightly sol. absolute alcohol. Uses—mfr. red light pyrotechnics, matches, marine and railroad signals. Grades—tech.; C.P.; dry, pure dry; impalpable.

STRONTIUM NITRATE (cont'd)

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Davies Nitrate Co Inc, 118 Liberty St, N Y — Rector 2-6095
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Barium & Chems, Inc, Willoughby, O — †Hooper Chem Corp, Rutherford, N J

STRONTIUM OXALATE

$SrC_2O_4 H_2O$. M. W. 193.7. White cyrst. pwdr. Insol. water; decomposes on heating; sol. most acids. Uses—mfg. pyrotechnics.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
†Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

†Barium & Chems, Inc, Willoughby, O

STRONTIUM OXIDE (Strontia, Strontium Monoxide)

SrO. M.W. 103.63. Grayish-white powd. Sp. gr. 4.7. M.P. 2430°C. Slightly sol. alcohol; sol. water. Uses—mfr. strontium hydroxide, pyrotechnic compositions, glass; photographic reagent; as paint and varnish pigment and filler; in medicine. Keep dry.

Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

†Barium & Chems, Inc, Willoughby, O

STRONTIUM PEROXIDE (Strontium Dioxide)

a. SrO_2. b. $SrO_2 8H_2O$, about 84% SrO_2 White, odorless, tasteless, crystalline or amorp. powd. Sp. gr. a. 0.456. M.P. a. Decomposes on heating. b. Loses water of crystallization at 100°C. Sol. alcohol, ammonium chloride solution. Uses—general bleaching agent; bleaching sugar; fireworks. Grades—tech.

†Carus Chem Co Inc, Union & 8 Sts, La Salle, Ill — La Salle 1500
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

†Barium & Chems, Inc, Willoughby, O

STRONTIUM SALICYLATE

$Sr(C_7H_5O_3)_2 + 2H_2O$. White, odorless, cryst. powd. Sol. alcohol, water. Uses—mfr. fine chemicals, pharmaceuticals; in medicine. Grades—U.S.P.; tech. Cont.—kegs (100 lbs.); boxes (25,50 lbs.).

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Dow Chem Co, Midland, Mich — Midland 500
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

Argus Chem Lab, Inc, Bklyn, N Y

STRONTIUM STEARATE

$Sr(C_{18}H_{35}O_2)_2$. White powder. M.P. 130-140°C. M.W. 634. Ash, 21.9%. Washed ash, 21.4%. Solubility ash. It is insoluble in low-molecular weight alcohols and esters. It is partly soluble in and forms gels with aromatic and aliphatic hydrocarbons such as benzol, mineral spirits, and paraffin oil. Uses—grease and wax compounding. Due to its colored flame it should be advantageous in pyrotechnic flares and signals.

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Argus Chem Lab, Inc, Bklyn, N Y

STRONTIUM SULFATE (Celestin)

$SrSO_4$. M.W. 183.7. Rhombic cryst. Uses—glass, ceramic industries; mfr. fireworks; in paper. Grades—tech., 98-99%.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756

†Barium & Chems, Inc, Willoughby, O

STRONTIUM SULFIDE

SrS. Gray powder. Sp. gr., 3.7. Uses—depilatory, luminous paints

†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

†Barium & Chems, Inc, Willoughby, O

STRONTIUM TARTRATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330

†Barium & Chems, Inc, Willoughby, O

STRONTIUM TITANATE

★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

STRONTIUM ZIRCONATE

★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

STRYCHNINE ALKALOID (Vauquetine)

$C_{21}H_{22}N_2O_2$. Small hard cryst. or white crystalline powd., very bitter taste. M.P. 265°C. Sol. alcohol, water; very slightly sol. ether. Uses—in rat and other vermin poisons.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

STRYCHNINE NITRATE

$C_{21}H_{22}O_2N_2HNO_3$. Colorless needles or white crystalline powd. Sol alcohol, water, chloroform; insol. ether. Uses—mfr. rat and other rodent poisons.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

STRYCHNINE SULFATE

$(C_{21}H_{22}N_2O_2)_2H_2SO_4 + 5H_2O$. Colorless, odorless prisms or white powd., very bitter taste. Sol. alcohol, water, chloroform; insol. ether. Uses: used extensively in mfr. of rodent exterminating products.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

STYRENE DIBROMIDE

†Dow Chem Co, Midland, Mich — Midland 500

STYRENE MONOMER (Vinyl Benzene)

C_8H_8. M.W. 104.14. Clear, colorless liquid of characteristic odor. Polymerizes slowly on standing, rapidly when heated, becoming increasingly viscous until a clear, glassy, solid state is reached. Sp. gr. 0.904 (25°C.). B.P. 81-82°C. at 100 mm. pressure. Flash pt 31°C. Sp. heat, BTU/lb./°F., 0.32. Viscosity at 25°C., 0.77 centipoises. Dielectric constant, 1000 cycle, 2.35. Sp. resistivity, 3.0 X 10^{12} ohm cms. Wt. per gal. at 25°C., 7.5 lbs. Grades—styrene content, not less than 98%, as a water-white liquid. Uses: mfr polystyrene plastic resin.

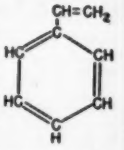
†Dow Chem Co, Midland, Mich — Midland 500
†Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
★†Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 837..

KOPPERS

Styrene Monomer

Purity: 99.3% Minimum

USES: In production of polystyrene molding products, GR-S synthetic rubbers, polyester laminating and casting resins and specialty synthetic elastomers. Its copolymers with drying oils are used in protective coatings. As a chemical raw material it is of value for the production of organic intermediates.



KOPPERS COMPANY, INC.
CHEMICAL DIVISION
Pittsburgh 19, Pa.

STYRENE OXIDE (1,2-Epoxyethylbenzene)

$C_8H_8C_2H_2O$. M.W. 120.1. Colorless to pale straw-colored liquid. Completely miscible with common organic solvents; insol. water.

†Dow Chem Co, Midland, Mich — Midland 500

SUCCINIC ANHYDRIDE (Succinaldehyde)

$C_4H_4O_3$ ($H_2C—CO$ >O $H_2C—CO$). Lightly col. flakes. Sp. gr. 1.104. Sol. chloroform:. Uses—mfr. pharmaceuticals, synthetic resins; organic synthesis. Grades—dist. (S.P. 117°C. min.).

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Lewis, Paul, Lab, Inc, Milwaukee, Wis

SUCCINIMIDE

$(H_2CCO)_2NH$. M.W. 99. Small, thin light-tan flakes, easily crumbled (tech.), nearly odorless, colorless crystals (purified). Very sol. hot water; completely sol. cold water, sodium hydroxide solution; insol. organic solvents. Uses: Gabriel synthesis of primary amines, for N-halogination, synthesis of β-alanine.

†Arapahoe Chems Inc, 2800 Pearl St, Boulder, Colo — 613
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Jovala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137

SUCCINYL SULFATHIAZOLE

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
†RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 9-4660
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

†Lewis, Paul, Lab, Inc, Milwaukee, Wis

SUCROSE OCTA—ACETATE

$C_{28}H_{38}O_{19}$. M.W. 678.3. White cryst. derivative of cane sugar. B.P. 260°C. at 1 mm. Hg. Decomposes above 285°C. Viscosity (100°C.) 29.5 poise. Sp. Rotation (CCl₄) + 54.96°C. Ref. Index 1.4660. Quite sol. acetone, ethylene dichloride, toluol; practically insol. water Uses—mfr. anhydrous adhesive compositions; to impart parchment-like surfaces to paper; to make oil, water and grease repellent surfaces to boxboard; as a denaturant in alcohol formulas; as a plasticizer.

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307

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(LACTOSE)

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("KB" BRAND)

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OTHER MILK PRODUCTS
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SUGAR OF MILK (Lactose, Lactin, Saccharum Lactis)

$C_{12}H_{22}O_{11}.H_2O$. White, solid crystalline. Sp. gr. 1.525 (20°C.). Decomposes at 203.5°C. Sol. water. Uses—mfr. infant foods, margarine, baked products, butter, confectionery, candies, sweetmeats, food preparations, pyrotechnic compositions; as bacteria medium; silvering glass mirrors; in medicine. Grades—U.S.P. powd.; impalpable powd.; C.P.

LACTOSE U.S.P.

GALLARD SCHLESINGER
CHEMICAL CORP.
92-94 LIBERTY ST., NEW YORK 6, N.Y.
RECTOR 2-0262 CABLE: GALLARDKEM

SUGAR OF MILK (cont'd)

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Avos-t Co, 1530 Spring Garden St, Phila, Pa	Locust 4-2400
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
European Chem Co Inc, 366 Bway, N Y	Beekman 3-6246
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
†Sheffield Farms Co, Inc, Chemurgic Div, P O Box 630, Norwich, N Y	Norwich 915
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091

MILK SUGAR • LACTOSE

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Div. of National Dairy Products Corp.

SUGARS RARE

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y	Glenwood 1877

SUGARS, RARE

ARABINOSE
GALACTOSE
LEVULOSE
MELIBIOSE
RAFFINOSE

CONSOLIDATED MIDLAND CORPORATION
KATONAH, NEW YORK, U. S. A.

SULFABENZAMIDE

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

SULFADIAZINE (2-Sulfanilamidopyridine)

M.W. 250.27. White elongated prisms or crystalline powder. Sulfadiazine is soluble 0.0123 g. in 100 cc. water at 37°C. It is readily soluble in aqueous bases or mineral acids; sparingly soluble in alcohol or acetone, insoluble in ether or chloroform. M.P. between 253°-256°C. with decomposition when inserted in a bath at 245°C. and heated at 4°C. per minute. It may be assayed by diazotization. Is useful in all the diseases treated by previous sulfanilamide derivatives, especially diseases caused by β-hemolytic streptococci, staphylococci, pneumococci, meningococci, gnococci and B. coli. It has the advantage of much lower toxicity than other drugs of comparable potency, hence may be used at more effective blood levels. Its solution in triethanolamine has shown outstanding properties in treatment of severe burns.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Chemstar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
†Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048

SULFAGUANIDINE (Sulfanilylguanidine)

M.W. 232.26. White, odorless needle-like crystals or crystalline powder. Sulfaguanidine is soluble, 10 g. in 100 cc. of boiling water, and 0.22 g. in 100 cc. at 37.5°C. It is 5% soluble in boiling 95% alcohol, 1.5% in boiling acetone. It is difficultly soluble in ethyl acetate and insoluble in benzene, ether and chloroform. It is readily soluble in cold bases. It is destroyed by boiling with strong bases. It melts in the range 189° to 192°C. after preliminary softening. In a short sealed tube, it melts at 142.5°-143.5°C. It may be assayed by diazotization. Effective in treatment of various bacterial diseases of intestines such as dysentery. Is poorly absorbed into blood stream so may be given in high dosage to secure action on intestinal organisms without reaching toxic blood levels.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950

SULFAMERAZINE

$C_{11}H_{12}N_4O_2S$. M.W. 264.3. M.P. 234-238° C. White or faintly yellowish white crystals or powder; nearly odorless; slightly bitter taste. Sol. dilute mineral acids, solutions of potassium, ammonium, sodium hydroxides; slightly sol. water, acetone, alcohol, ether, chloroform. Uses: pharmaceuticals.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120

SULFANILAMIDE, U.S.P.

(para-Aminobenzenesulfonamide)

Specifications: White crystals or powder; assay (dry basis) 99.5% min.; m.p. 165.0° C. min.; solution in N/2 HCl (2:30) clear; ash 0.05% max.; chlorides (as HCl) 0.014% max.; sulfates (as H_2SO_4) 0.04% max.; conforms to U.S.P. test for heavy metals.

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Organic Chemicals Division
St. Louis 4, Mo.

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SULFANILAMIDE (P-Aminobenzenesulfonamide, Sulfamidyl, Sulphonamide P, Prontosil Album)

$C_6H_8N_2O_2S$. M.W. 172.14. M.P. 164.5-166.5° C. Sol. water, alcohol. Colorless or white crystals or white crystalline powder. Uses—medicinal.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170

SULFANILAMIDE (cont'd)

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

Legion Export & Import Co, Inc, N Y

SULFAPYRIDINE (2-Sulfanilamidopyridine)

$H_2N \cdot C_6H_4 \cdot SO_2 \cdot NH \cdot C_5H_4N$. M.W. 249.28. **Freely sol. dilute mineral acids, aqueous solution of potassium and sodium hydroxides. Use: medicine.**

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120

SULFATHIAZOLE

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
De Bear Inc, 636 11 Av, N Y	Plaza 7-0960
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Shepard Chem Corp, 117 Liberty St, N Y	Worth 4-3950
Tuteur & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

Legion Export & Import Co, Inc, N Y

SULFUR (Colloidal, Medicinal)

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
†Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585

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HTH Products • CARBONIC GAS • SODIUM METHYLATE
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SULPHUR • AMMONIUM SULPHATE • NITRATE OF SODA
• FERTILIZERS •

MATHIESON CHEMICAL CORPORATION
MATHIESON BUILDING • BALTIMORE 3, MD.

SULFUR (Colloidal, Medicinal) (cont'd)

†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Hubor, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
★†Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
†Virginia Smelting Co, W Norfolk, Va	Portsmouth 7-3441

Barada & Page, Inc, Kansas City, Mo
Berlow & Schlosser Co, Providence, R I
Croton Chem Corp, N Y
Globe Chem Co, Cincinnati, O
Lyon Chems, Inc, St Paul, Minn
†Miller, Prods Co, Portland, Ore
Niagara Chem Div, Food Machy & Chem Corp, Middleport, N Y
Vitro Mfg Co, Pittsburgh, Pa

SULFUR (Raw, Brimstone)

S. a. Solid amorp. b. Yellow, solid crystalline. Natural and manufactured. Sp. gr. a. 1.9556. b. 2.046. M.P. a. 120°C. b. 258°C. (ignition point). B.P. a. and b. 444.6°C. Sol. carbon disulfide, sulfur chloride. Uses— mfg. sulfuric acid, other organic and inorganic sulfur compounds, dyes, papermaking, explosives, insecticides, fumigants, vulcanization of rubber, medicine and other special uses.

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
†Freeport Sulphur Co, 122 E 42 St, N Y	Lexington 2-1450
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712

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Mines: Louisiana and Texas

SULFUR (Raw, Brimstone) (cont'd)

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
†Jefferson Lake Sulphur Co, New Orleans, La — †Utah Sulphur Industries, Sulphurdale, Utah
Talve Trading Co, N Y
†Texas Gulf Sulphur Co, Inc, N Y

SULFUR DI-CHLORIDE

SCl₂. M.W. 102.97. Reddish-brown liquid. Sp. gr. 1.621 at 15°C. M.P. —78°C. B.P. 59°C. Decomposes at 64°C. Grades—technical.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Dow Chem Co, Midland, Mich — Midland 500
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200

ANSUL LIQUID Sulfur Dioxide ANSUL

SULFUR DIOXIDE

IMMEDIATELY AVAILABLE

Reagent Grade . . . in tank cars, multi-unit cars, ton containers and cylinders.

PURITY 99.98+% (by weight)

Send your Sulfur Dioxide problems to the Ansul Technical Staff.

*REG. U.S. PAT OFF

ANSUL CHEMICAL COMPANY INDUSTRIAL CHEMICALS DIVISION MARINETTE WISCONSIN
60 E. 42nd St., New York—Lincoln-Liberty Bldg., Broad & Chestnut Sts., Philadelphia 7, Pa.

SULFUR DIOXIDE (Sulfurous Acid Anhydride)

SO_2. Colorless liq. or gas. Sp. gr. 1.434 (0°C.). M.P. —73°C. B. P. —10°C. Sol. water, alcohol, ether. Uses: as reagent; in bleaching; as preservative; as a selective for purification of kerosene and lubricating oil stocks.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Ansul Chem Co, Marinette, Wis — Marinette 216
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151

SULFUR DIOXIDE (cont'd)

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
†Elston Chems Inc, 3100 E 26 St, Los Angeles, Calif — Angelus 9-8183
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Tennessee Corp, P O Box 2205, Atlanta, Ga — Walnut 4210
†Virginia Smelting Co, W Norfolk, Va — Portsmouth 7-3441
†Ohio Chem & Surgical Equipt Co, Cleveland, Ohio — Ulrich Chem Co, Indianapolis, Ind

"VIRGINIA" **ESOTOO** DOES IT!

"ESOTOO" is "Virginia's" 99.98% pure Liquid Sulfur Dioxide. Used in chemical manufacturing, textile processing and related industries; recommended for solvent extraction, oil activation, as a reaction medium and as an efficient reducing and neutralizing agent. Easy to ship, store, handle. Prompt delivery in cylinders, drums, and tank cars; any quantities for laboratory or plant use.

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West Norfolk 12, Va.
FIELD OFFICES:
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PHILADELPHIA
DETROIT • CHICAGO • ATLANTA

VIRGINIA Chemicals

SULFUR FLOUR

Uses—match mfg., oil refining—general industrial purposes, stock feeds and for general agricultural purposes where a finely divided sulfur is not necessary.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Lo 7-4650
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Battelle & Renwick, Inc, N Y — Niagara Chem Div, Food Machy & Chem Corp, Middleport, N Y
Globe Chem Co, Cincinnati, O
Mine & Smelter Supply Co, Denver, Colo

SULFUR FLOWERS

A sublimed sulfur. Uses—burning (fumigation, bleaching, fruit preservation), medicinal, livestock feeds.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Lo 7-4650
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

SULFUR FLOWERS (cont'd)

†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Battelle & Renwick, Inc, N Y — Globe Chem Co, Cincinnati, O

SULFUR HEXAFLUORIDE

†General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300

SULFUR MONOCHLORIDE (Sulfur Subchloride)

S_2Cl_2 M.W. 135.03. Amber to yellowish-red, fuming liq., penetrating odor. Sp. gr. 1.678. F.P. —80°C. B.P. 135.6°C. Sol. alcohol, ether, benzene, carbon disulfide, amyl acetate. Uses— mfr. rubber cements and substitutes, acetic anhydride, intermediates, organic chemicals, linseed oil substitutes, military poison gas, insecticides, varnishes, waterproofing and pharmaceutical preparations; hardening soft woods; sulfur solvent; vulcanizing rubber; defecation of sugar juices; finishing and dyeing textiles; in medicine. Grades—red; yellow.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
N Y — Murray Hill 9-4920
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

SULFUR PRECIPITATED (Sulfur, Lac; Milk of sulfur)

A fine, light-colored amorphous powder, without taste or odor, obtained by the action of hydrochloric acid upon a solution prepared by boiling together sulfur and lime in water. Use—medicine.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Le 7-4650
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Griffin Chem Co. 1000 16 St, San Fran, Calif — Underhill 1-8610
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-5655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

SULFUR WETTABLE

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
†Dow Chem Co, Midland, Mich — Midland 500
Faesy & Besthoff Inc, 325 Spring St. N Y — Worth 4-8585
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
†Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
†Tennessee Corp, P O Box 2205, Atlanta, Ga — Walnut 4210

†Corona Chem Div, Milwaukee, Wisc

SULFURYL CHLORIDE (Sulfonyl Chloride, Sulfuric Chloride, Chlorsulfuric Acid)

SO_2Cl_2. Colorless liq., pungent odor. Sp. gr. 1.66 (20°C.). B.P. 69°C. Decomposes in water. Sol. acetic acid. Uses—in organic synthesis; as laboratory reagent. Grades—tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

SULFURYL CHLORIDE AND THIONYL CHLORIDE

Other Chlorinating Agents:

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Sulfur Dichloride • Phosgene

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HOOKER CHEMICALS

For listings of other products see Catalog Section ad.

SUMAC (Rhus Glabra, Shumac)

Leaves and twigs of various plants of Rhus family. Habitat—many countries including Italy, Spain, Greece, and Virginia. Uses—textile dyeing; tanning industry; in medicine. Grades—Sicilian; Virginian ground leaves; U.S.P.

Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Colony Import & Export Corp, 11 E 44 St, N Y — Murray Hill 2-3160
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

SUMAC EXTRACT

Extract from leaves and twigs of the sumac plant. Uses—tanning leather. Grades—liquid; stainless; ordinary; U.S.P.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

SUPERPHOSPHATE (Acid Phosphate)

1. An acid phosphate. 2. Mixture of calcium phosphate and calcium sulfate. Uses—as fertilizer.

DAVISON

Superphosphates

GRANULATED and PULVERIZED

Davco Granulated Superphosphate:
20% P_2O_5

Non-Granulated Superphosphate:
Run-of-pile

Ammoniated Superphosphate:
5% nitrogen, 16% available P_2O_5

Complete Mixed Fertilizers:
Granulated and Non-granulated

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Davison-owned and operated Rock Phosphate mines at Bartow, Florida, assure steady flow of basic raw material.

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Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
†Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
†Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Page, Chas. & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
†Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va — 2-0113

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ALL GRADES and other
Chemicals, Solvents and Coal Tar Products

Republic Chemical Corp.
94 Beekman Street, New York 7
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SUPERPHOSPHATE (cont'd)

†Baugh Chem Co, Baltimore, Md
Huber, L W, Co, N Y
Jett, Joseph C, Norfolk, Va
McIver, Alex M, & Son, Charleston, S C
Priddy, C W, & Co, Inc, Norfolk, Va

TSP (Trisodium Phosphate)—see Sodium Phosphate, Tri-Sodium

TSPP (Tetrasodium Pyrophosphate)—see Sodium Pyrophosphate Tetra

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$Si_4O_{10}Mg_3H_2$. **Refined is white, in impure state occurs in various shades, mostly green. Natural. Sp. gr. 2.7-2.8. Insol. Uses—mfr. refractory products, gas burner tips, making chalk, metallurgical molds, chemical apparatus, pencils, cores for electrical heating appliances, plastics, toilet, dusting and foot powd., cold water paints, roof cements, varnishes, magnesium salts, glazed kid, belt dressings, chamois leathers, artificial building stones, porcelains, potteries, ceramic glazes, lamp chimneys, asbestos products, composition flooring, crayons, coated, glazed, blotting and roofing papers, white, shoe and automobile polishes, lubricating, electrical insulating, glue, adhesive compositions; insulating compositions for covering steam pipes and the like; refining sugar syrups and molasses; filtering and deodorizing petroleum and other oils; filtering and purifying water; treating**

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Fullers Earth	Silica	Beeswax
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Colloidal Kaolin	Whiting	Montan Wax
Bentonite	Magnesia	Potato Starch
Terra Alba	Zinc Stearate	Dextrine

NORIT Activated Carbon

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TALC (cont'd)

industrial waste waters; sizing and blesching cottons; dressing leathers and skins; finishing, dyeing and printing textiles; as dusting powd. in foundry practice; chemical catalyst carrier; absorbent in dynamite; pigment; general absorbent; as filler in paint, oil-cloth, soap, paper, rubber, insecticides, rope making and cordage; in medicine. Grades—U.S.P.; crude; washed; air floated; Domestic; Italian; French; English.

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Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Binney & Smith Co, 41 E 42 St, N Y	Murray Hill 2-1960
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif	Madison 9-2574
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
Dalton-Cooper Inc, 200 W 34 St, N Y	Longacre 4-2910

Talc

Imported *Domestic*
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Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
Goris, and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y	Murray Hill3-8350
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300

TALC (cont'd)

Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4365
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Richards, H N, Co, 1475 Prospect St, Trenton, N J — 3-4186
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Browning, E S, Co, San Fran, Calif
†Cohutta Talc Co, Dalton, Ga
Cole & De Graf, San Fran, Calif
†Eastern Magnesia Talc Co, Burlington, Vermont
Eglesion, Wm D, Co, Cambridge, Mass
Fidelity Trading Co, Inc, San Fran, Calif
Georgia Peruvian Ochre Co, N Y
†Industrial Minerals & Chem Co, Berkeley, Calif
Industrial Minerals & Chem Co, Berkeley, Calif
Landers-Segal Color Co, Bklyn, N Y
Mtrs Mining Co, Seattle, Wash
Palmer Supplies Co, Cleveland, O
Porter Warner Industries, Inc, Chattanooga, Tenn

EXPORT

TALLOW · GREASE

(ALL GRADES)

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ESTABLISHED 1892

ELBERT & COMPANY, INC.

2 BROADWAY, NEW YORK 4, N.Y., DIGBY 8-2670

TALLOW, ANIMAL

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
†Darling & Co, 4204 S Ashland Av, Chicago, Ill — Yards 7-3000
†Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874
Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Marcus-Ruth-Jerome Co, 327 S LaSalle St, Chicago, Ill — Harrison 7-1760
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

†Con Chem Industries, Inc, San Fran, Calif
Craven, Sidney P, N Y
Davidson Commission Co, Chicago, Ill
†Detroit Rendering Co, Detroit, Mich
Frey & Co, N Y
Hardy, M W, & Co, Inc, N Y
Madison Glue Corp, N Y
†Neatsfoot Oil Refgs Corp, Phila, Pa
Pfau's, George, Sons Co, Jeffersonville, Ind
Spiegel & Peiffer, N Y
†Swift & Co, Chicago, Ill
Tobey Chem Co, N Y
Verde, E J, & Co, N Y

TALLOW, BUFFING & POLISHING—see Chemical Specialties Section

TALLOW, Mutton

Fat derived from solid fat or "suet" of sheep. Quality varies depending upon the season, food and age of the animal. Consists mainly of olein, stearin, and palmitin. Sp. Gr. 0.937-0.953. Solidifying Pt. 36-41°C. Uses—mfr. of stearin and oleo oil, leather dressing, soap stock, food, candles, railway axle grease.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Frey & Co, N Y
Verde, E J, & Co, N Y

TALLOW SULFONATED

Obtained by treating tallow with sulfuric acid, thus adding the sulfate group and making the tallow water-soluble. White paste. Uses—as softening or finishing agent on cotton or rayon piece goods. Grades—25% total fat, 50% total fat.

†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Hercules Powder Co, 978 Market St, Wilmington, Del
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Kali Mfg Co, 427 Meyer St, Phila, Pa — Regent 9-2370
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

TALLOW SULFONATED (cont'd)

†Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
†Royce Chem Co, Carlton Hill, N J
†Warwick Chem Co, Long Is City, N Y

TALLOW, Vegetable

From fruit of Chinese tallow tree. Solid amorp. Sp. gr. 0.8843-0.9449. Solidification point 27-35°C. Saponification No. 198-204. Iodine No. 19-60. Acid No. 4.2-14.7. Uses: mfr. soaps, candles, paper pulp, lubricant, lubricating compositions; dressing and finishing leather goods; foam preventative in beater; engraving and lithography. Grades—tech.

Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
Wah Chang Corp, 233 Bway, N Y — Cortlandt 7-0887
Frey & Co, N Y
Spiegel & Peiffer, N Y

TANKAGE (Hinite)

Obtained from garbage disposal and abattoir by-product plants. Uses: as fertilizer. Grades—graded according to percentage of nitrogen (or ammonia) and phosphoric acid. Also as to source, fish, animal, etc.; 7%-12% ammonia; 15% B.P.L.

†Consolidated Chem Industries, Inc, 640 Wellie Esperon Bldg, Houston, Texas — CA2371
†Darling & Co, 4204 S Ashland Av, Chicago, Ill — Yards 7-3000
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
†Conrad-Kammerer Glue Co, New Albany, Indiana
†Con Chem Industries, Inc, San Fran, Calif
Davidson Commission Co, Chicago, Ill
†Detroit Rendering Co, Detroit, Mich
Heap, F J, & Son, Inc, Boston, Mass
Huber, L W, Co, N Y
Jackle, Frank R, N Y
Melver, Alex M, & Son, Charleston, S C
Madison Glue Corp, N Y
Spiegel & Peiffer, N Y
Wessel-Dural Co, N Y
Woodward & Dickerson, Inc, Phila, Pa

TANNING EXTRACTS

Products obtained from certain barks and woods and used in tanning sole and other heavy leathers, that is conversion of skins and hides into leather. Various methods of extraction are employed and the resulting liquors are evaporated to a thick liquid or solid. The active principle is in every case the quantity of tannin present. See also: Chestnut Extract, Divi-Divi, Gambier Extract, Hematine Extract, Hemlock Extract, Mangrove Extract, Cutch, Myrobalan Extract, Oak Extract, Quebracho Extract, Sumac Extract, Valonia Extract, etc.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Colony Import & Export Corp, 11 E 44 St, N Y — Murray Hill 2-3160
†Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131

TANNING SPECIALTIES

CUTRILIN* Tanner's Bate

ASTRULAN* and URSULIN* Fat liquors for Leather

TANAK* Syntan designed for many specific purposes

TWECOTAN* Tanning Agents

BETASOL* Wetting Agents

AMERICAN Cyanamid COMPANY

30 Rockefeller Plaza, New York 20, N. Y.

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COAL TAR CHEMICALS

Anthracene, Naphthalene
Phenol, Pyridine, Tar Acids
Intermediates
Fine and Heavy Chemicals

FALLEK PRODUCTS CO., INC.
163 Broadway
NEW YORK 6, N. Y.
Cable Address: "FALCOPROD"

TANNING EXTRACTS (cont'd)

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000
Meyer & Gregg, Phila, Pa
†Puget Sound Pulp & Timber Co, Bellingham, Wash
Ritter Chem Co, Amsterdam, N Y
Tanners Supply Co, Grand Rapids, Mich
†Trask, Arthur C, Co, Chicago, Ill
†Wells Chem Co, Johnstown, N Y

TANTALUM (Metal)

Ta. M.W. 181.5. Rare metal of the vanadium family. At. No. 73. Gray platinum-like metal. Density 16.6. M.P. 2850°C. Insol. alkalies and acids, except hydrofluoric. Uses: as a substitute for platinum, in radio.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Fansteel Metallurgical Corp, N Chicago, Ill

TANTALUM OXIDE

Ta_2O_5. M.W. 442. White powder; tasteless, odorless. Insoluble in most acids except HF. Uses: "Rare element" optical glass, intermediate in prep. of tantalum carbide.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Fansteel Metallurgical Corp, N Chicago, Ill
Metallurg. Inc, N Y

TANTALUM (POWDER)—see Metals, Powder

ESTABLISHED 1853
Morningstar
TAPIOCA FLOUR
PURE FOOD AND INDUSTRIAL GRADES
FINES • PEARLS • FLAKES • GRANULES
Suppliers of tapioca products for all types of industry. 100 lb. bags to carlot quantities available for immediate shipment. Tell us your requirements.
MORNINGSTAR, NICOL, INC.
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TAPIOCA FLOUR (Cassava, Manioca, Mandioc, Bahia Arrowroot, Rio Arrowroot)

From roots of Manihot Utilissima and Manihot Aipi. Solid white amorp. Swells with water. Uses—mfr. starch, baked products, confectionery, candies, food preparations; as textile size. Grades—medium; high and low grades under various markings.

†Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0580
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Grace, W R, & Co, 7 Hanover Sq, N Y — Whitehall 4-1200
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
†Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800
Wah Chang Corp, 233 Bway, N Y — Cortlandt 7-0887
†Arabol Mfg Co, N Y
Chem Advance Corp, Phila, Pa
Internatio-Rotterdam, Inc, N Y

TAR, COAL

Black liq. from destructive distillation of coal. Sp. gr. 1.08-1.25. Sol. ether, benzene, carbon disulfide, chloroform; partly sol. acetone,

Basic and Fine
COAL TAR PRODUCTS
Benzol, Toluol, Xylol, Solvents
Tar, Pitch, Creosote-Oil
Naphthalene, Phenol, Anthracene
Cresols, Intermediates, Acids
Plasticizers
CHEMATAR, INC.
40 Exchange Place New York 5, N. Y.
Telephone: HAnover 2-0364
Cable Address: TARACHEM

TAR, COAL (cont'd)

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
†Fallek Prods Co Inc, 163 Bway, N Y	Barclay 7-7939
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
†Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
†Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo	Laclede 2201
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

PICCO

COAL TAR PRODUCTS

PENNSYLVANIA INDUSTRIAL CHEMICAL CORP.

CLAIRTON, PENNSYLVANIA

Amer Tar Co, Seattle, Wash	†Inland Steel Co, Chicago, Ill
†Coopers Creek Chem Corp, W Conshohocken, Pa	†Lewis Tar Prods Co, Lyons, Ill
Crowley Tar Prods Co, Inc, N Y	†Milwaukee Solvay Coke Co, Milwaukee, Wisc
Dakota Briquets & Tar Prods, Inc, Dickenson, N Dak	Ruberoid Co, N Y

TAR, PINE

Black semi-solid. Peculiar terebine odor. From destructive distillation of Pinus palustris. Sp. gr. 1.03-1.07. B.P. 240-400°C. Sol. alcohol, ether, chloroform. Uses: mfr. roofing papers, cements, paints, varnishes, plastics, tar soaps, linoleum, oil-cloth, roofing and asphaltic compositions; paving roads and streets; general perservative; marine purposes. Grades—kiln burnt and retort.

Reilly COAL TAR Chemicals

Aminopyridines		Diphenylene Oxide
2—Aminopyridine		2-Dipyridylethyl Sulfide
2—Amino—3—Methylpyridine		Ethylphenols
2—Amino—4—Methylpyridine		Para Ethylphenol
2—Amino—5—Methylpyridine		Meta Ethylphenol
2—Amino—6—Methylpyridine		1, 3, 5—Methylethylphenol
Acenaphthene	Fluorene	Pyrene
Acridine	Fluoranthene	Quinaldine
Alkanolpyridines	2—Hexylpyridine	Quinoline
2—Ethanolpyridine	High Coefficient Acid	2—Vinylpyridine
4—Ethanolpyridine	Isoquinoline	Xylenols
2—Propanolpyridine	Lepidine	1, 3, 5—Xylenol
4—Propanolpyridine	2—6 Lutidine	1, 2, 4—Xylenol
Alkylpyridines (Higher)	2—Mercaptoethylpyridine	1, 3, 4—Xylenol
2—n Amylpyridine	1—Methylnaphthalene	1, 4, 2—Xylenol
4—n Amylpyridine	2—Methylnaphthalene	
2—(5—Nonyl) Pyridine	Methylnaphthalene (Alpha-Beta)	
4—(5—Nonyl) Pyridine	3—Methylisoquinoline	
Anthracene	Naphthalene	
Carbazole	Crude and Refined	
N—Alkyl Carbazole	Phenanthrene	
N—n—Butylcarbazole	Phenol	
N—Ethylcarbazole	Picoline—Alpha	
Cresols U.S.P., Meta-Para, Ortho	Picoline—Beta	
Cresylic Acids	Picoline—Gamma	
Chrysene	Pyridine Bases	
Dimethylnaphthalenes	Pyridine	

Reilly COAL TAR PRODUCTS

. . . . and other Coal Tar Products

REILLY TAR & CHEMICAL CORPORATION

Merchants Bank Building, Indianapolis 4, Indiana

500 Fifth Ave. New York 18, N. Y. | 2513 S. Damen Ave. Chicago 8, Ill. | St. Louis Park Minneapolis 16, Minn.

(See our other ads. under Coal Tar Creosote, Coal Tar and Cresylic Acid)

U·S·S Coal Tar Solvents

Benzol Toluol

Xylol Solvent Naphtha

Available in tank-car quantities

COAL CHEMICAL SALES DIVISION

United States Steel Corporation Subsidiaries

71 Broadway, New York 6, N. Y.

USS COAL CHEMICALS

UNITED STATES STEEL

TAR, PINE (cont'd)

†Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass	Liberty 2-1870
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†National Rosin Oil Prods, Inc, 1270 6 Av, N Y	Circle 7-4473
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo	Laclede 2201
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

Colledge, E W, GBA, Inc, Jacksonville, Fla	Moser, George, & Son, Inc, Detroit, Mich
Gillies & Loughlin, Los Angeles, Calif	West Co, Chelsea, Mass
Hird & Connor, Inc, Boston, Mass	Wilson, T C, Co, San Fran, Calif

TAR, WOOD (Hardwood Tar)

Black, viscous fluid. Uses: hardwood pitch, wood creosote (medicinals, etc.), heavy, high-boiling wood oils, wood preserving oils, paint thinners.

Coaltar Chems Corp, 420 Lexington Av, N Y	Oregon 9-2550
†National Rosin Oil Prods, Inc, 1270 6 Av, N Y	Circle 7-4473

TARA, Pods and Powder

Vegetable tanning powder from Peru. Yellow to white pods and powder. 50-55% tannin. Uses—tanning leather, substitute for sumac, mfg. of tannic acid, and pyrogallic acid, dyeing.

Allison, Wm M, & Co, 162 Water St, N Y	Whitehall 3-7421
Colony Import & Export Corp, 11 E 44 St, N Y	Murray Hill 2-3160

TAURINE

Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Jorala Prods Co, 894 Whittier St, Bronx, N Y	Dayton 3-1137
†Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J	Rutherford 2-9500

†Algo Chem Co, Detroit, Mich

TELLURIUM METAL (Sylvanium)

Te. Dark-gray, crystalline or amorp. powd., non-metallic element. Sp. gr. 6.25. M.P. 451°C. B.P. 1390°C. Sol. concentrated sulfuric acid, nitric acid, potassium hydroxide, and potassium cyanide solutions. Uses: mfr. tellurium compounds, alloys; in ceramics and photography; as chemical catalyst; in medicine. Grades—tech.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864

†Amer Metal Co, Ltd, N Y
†Amer Smelting & Refg Co, N Y
†U S Smelting Refg & Mining Co, N Y

TELLURIUM OXIDE (Tellurium Dioxide, Tellurite)

TeO_2. M.W. 159.61. White, odorless crystals. Sp. gr. 5.89. M.P. 700°C. Sublimes 450°C. Slightly sol. water, dilute acids. Sol. con. acids and alkalies. Forms unstable salts with HNO_3 and H_2SO_4. Grades—C.P.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375

†U S Smelting Refg & Mining Co, N Y

TERPIN HYDRATE (Dipenten Glycol)

$C_{10}H_{20}O_2 \cdot H_2O$. Uses: drugs; raw material for terpineol.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Lack Chem Co, 19 Park Pl, N Y	Cortlandt 7-5942
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J	Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-3600
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

TERPINEOL

$C_{10}H_{18}O$. M.W. 154.24. Colorless liquid, lilac odor. Uses—perfumery.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
†Aromatic Prods Inc, 15 E 30 St, N Y	Murray Hill 4-7875
†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
†Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
†Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140

alpha-TERPINEOL

$C_{10}H_{18}O$. M.W. 154.14. Transparent, colorless crystals. Sp. gr at 15.5°C., 0.939. M.P. 35°C. (pure), 25-30°C. (tech.). B.P. 219°C. Insol. in water. Sol. in alcohol and ether. Uses—mfr. synthetic perfumes, terpin hydrate, liquid terpineol, dipentene; in detergents; solvent for resins; denaturant for alcohol; medicinal and pharmaceutical preparations. Grades—tech.

†Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140

TERRA ALBA (White Clay)—see also Kaolin

$CaSO_4 2H_2O$. A finely pulverized powd. made from selected gypsum. Uses: mfr. paints, paper, artificial marble, composition plastics, wall plastics, etc.

Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
†U S Gypsum Co, Industrial Div, 300 W Adams St, Chcago, Ill	State 2-6100
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Riverside Chem Co, Inc, N Tonawanda, N Y	

TESTOSTERONE

†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
†Biorganic Labs, Inc, Bklyn, N Y	†Glidden Co, Chicago, Ill

TESTOSTERONE PROPIONATE

Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
†Desmo Chem Corp, 565 5 Av, N Y	Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870
†Biorganic Labs, Inc, Bklyn, N Y	†Glidden Co, Chicago, Ill

TETRA BROMO FLUORESCEIN

†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y	Gibraltar 7-8600
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y	Barclay 7-9760
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
†N Y Color & Chem Co, 374 Main St, Belleville, N J	Belleville 2-1140

TETRACHLOROBENZENE 1:2:4:5

$C_6H_2Cl_4$. M.W. 215.9. White crystalline solid, almost no odor. Uses: impregnant for fire and moisture resistance, electrical insulation, etc.; insecticides; chemical intermediate.

★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y 6655

CMC Chemicals

PERCHLORETHYLENE

Urea	Chloroform
Sodium Bicarbonate	Sodium Perborate
Trichlorethylene	Ammonium Carbonate
Sal Ammoniac	Ammonium Bicarbonate
Tropical Bleaching Powder (Stabilized)	Sodium Sulphide
	Sodium Hydrosulphite

CHEMICAL MANUFACTURING CO., INC.
NEW YORK 6, N. Y. 21 WEST STREET | SAN FRANCISCO 23 CALIFORNIA ST.

TETRACHLOROETHYLENE (Carbon Bichloride, Carbon Dichloride, Perchlorethylene)

$CCl_2.CCl_2$. M.W. 165.83. Colorless non-inflam. liq., ether-like odor. Pounds/gal. 13.5. Sp. gr. 1.632. F.P. —22.4°C. B.P. 120.8°C. V.D. at 15°C., lbs./cu. ft. 0.438. Latent Heat of Vap., B.T.U./lb. 90.1. S.H., Cal./Kg./°C. or B.T.U./lb./°F., 216 at 20°C. Sol. alcohol, ether; insol. water. Uses—mfr. dry cleaning soaps, detersive compounds, organic preparations; as dry-cleaning solvent; in organic synthesis, as general solvent. Grades—tech.

PERCHLORETHYLENE

JOHN A. CHEW
Incorporated
INDUSTRIAL AND FINE CHEMICALS
60 East 42nd Street, New York 17, N. Y. MU 2-0993

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
†Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Dow Chem Co, Midland, Mich	Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
†Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I	Hopkins 1-0770
Chem Sales Corp, Buffalo, N Y	†Farinella, Frank C, N Y
Ditto Co, Garfield, N J	Slater-Robbins, Inc, Long Is City, N Y
Dunn Chem Co, Inc, Poughkeepsie, N Y	

PERCHLOROETHYLENE
TETRACHLOROETHYLENE
DOW
THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products
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See listing ad for other products

TETRACHLORONAPHTHALENE

†Halowax Prods Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo	Laclede 2201

2,4,5,6-TETRACHLOROPHENOL

C_6HCl_4OH. M.W. 231.8. Brown solid with characteristic phenol odor. Sp. gr. 1.65 at 60/4°C. Sol. sodium hydroxide solutions, most organic solvents; insol. water. Uses—as a fungicide; as a wood preservative.

Chapman Chem Co, Dermon Bldg, Memphis, Tenn	37-8316
†Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
†Dow Chem Co, Midland, Mich	Midland 500

TETRACHLOROPHTHALIC ANHYDRIDE

$C_6Cl_4(CO)_2O$. M.W. 285.9. M.P. 254-255° C. B.P. approx. 362° C. White odorless powder. Use: intermediate.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Niagara Alkali Co, 60 E 42 St, N Y	Murray Hill 2-8090

Looking For High Quality

TETRACHLORO PHTHALIC ANHYDRIDE?

SEE NIAGARA

NIAGATHAL* (Tetrachloro Phthalic Anhydride) meets the highest standards for quality and purity. It is suggested as an efficient intermediate or compounding material for the manufacture of dyes, esters, synthetic rubbers, pharmaceuticals, plasticizers, insulating materials, fungicides, protective coatings, lubricants and synthetic esters.

Niagara ALKALI COMPANY

60 East 42nd Street, New York 17, N. Y.

Liquid Chlorine • Caustic Potash • Carbonate of Potash
Paradichlorobenzene • Caustic Soda
NIAGATHAL* (Tetrachloro Phthalic Anhydride)
NIALK* TRICHLOREthylene

* Trademark

TETRADECANOL

$C_6H_5CH(C_5H_9)C_6H_4CH(OH)CH_2CH_2(CH_2)_8$. M.W. 214.38. B.P. 264°C. Mild odor, stable. Uses: anti-foaming agent; intermediate in mfg. of plasticisers, perfume esters, cosmetic bases, dyestuffs, wetting agents, detergents, flotation agents, and insecticides.

Aceto Chem Co Inc, 32 Beaver St, N Y — Digby 4-9760
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

TETRADECYL MERCAPTAN, Tertiary

$C_{14}H_{29}SH$. M.W. 230.90. Boiling range 116-138°C. Uses: rubber modification, chemical intermediate.

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

TETRAETHANOLAMMONIUM HYDROXIDE

$(HOCH_2CH_2)_4NOH$. M.W. 211.18. M.P. 123°C. White, crystalline solid. Sol. water. Uses: alkaline catalyst which can be destroyed by heating the reacting mix; solvent for certain dyes.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

TETRON* (tetraethyl pyrophosphate-technical)

Powerful base insecticide especially effective against spider mites and aphids. Available as straight chemical or 25 and 50% solutions with emulsifying agent.

OTHER ESTON PRODUCTS: Refrigerants — Space Fumigants — Soil Fumigants — Insecticides — Low Pressure Aerosols.

*Trade Mark Registered

ESTON CHEMICALS

ESTON CHEMICALS, INC.
3100 E. 26th St. LOS ANGELES 23

TETRAETHYL PYROPHOSPHATE (T.E.P.P.)

$(C_2H_5O)_4P_2O_7$. M.W. 854. Viscous liquid. Sol. water. Uses: powerful insecticide.

Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Eston Chems Inc, 3100 E 26 St, Los Angeles, Calif — Angelus 9-8183

TETRAETHYL PYROPHOSPHATE (cont'd)

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Powell, John, & Co Inc, 1 Park Av, N Y — Murray Hill 5-1770
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Niagara Chem Div, Food Machy & Chem Corp, Middleport, N Y

TETRAETHYL o-SILICATE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

TETRAETHYL THIURAM DISULFIDE

$[(C_2H_5)_2NCS_2]_2$. M.W. 296.52. Cream color. Uses: vulcanizing agent; primary or secondary accelerator; retarder for Neoprene.

†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Pauray Corp, N Y

TETRAETHYLENE GLYCOL

$HO(C_2H_4O)_2C_2H_4OH$. M.W. 194.23. Colorless, hygroscopic liquid. B.P. 327.3° C. Sol. in water; insol. in benzol, toluol, or gasoline. Sp. gr. 1.1248 at 20/20° C. Wt. per gal., 9.4 lbs. at 20° C. Uses—solvent for nitrocellulose; general plasticiser; heat transfer medium; intermediate in mfr. resins.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Dow Chem Co, Midland, Mich — Midland 500

TETRAETHYLENE GLYCOL ESTERS

†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 6-0800
†Ninol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625

TETRAETHYLENE PENTAMINE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

TETRAHYDROFURANE

$(H_2C)_2:O:(CH_2)_2$. M.W. 76.09. B.P. 42°C. Water white; chloroform odor. Uses: solvent for cellulose esters, alkyd resins, synthetic rubber, vinyls; intermediate in synthesis of adipic and succinic acids.

†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

TETRAHYDROFURFURYL OLEATE

†Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
†Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700

TETRAHYDROXYQUINONE

†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

TETRAHYDROXYQUINONE SALTS

†Smith-New York Co, Inc, 65 Hampton Pl, Freeport, N Y — Freeport 9-2447

TETRAMETHYLAMMONIUM SALTS

†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600

TETRAMETHYL THIURAM DISULFIDE

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

TETRAMETHYLENE DIBROMIDE

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419

tetramethylene dibromide

n-Octyl Bromide
2-Octyl Bromide
Cyclopentyl Bromide
Hexamethylene Dibromide
Pentamethylene Dibromide
Myristyl Bromide

Write for Catalog listing Organic Fluorides, Chlorides, Bromides, Iodides

HALOGEN CHEMICALS INC.
Columbia, S. C.

TETRAMETHYLENE DIBROMIDE (cont'd)

†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125
†Sapon Labs, Bklyn, N Y

TETRAPHENYL TIN (Tetraphenyl Stannane)

$(C_6H_5)_4Sn$. M.W. 427. M.P. 228° C. B.P. 424° C. Practically odorless, white to light tan fine, free flowing crystals. Uses: HCl scavenger for use with stabilizers in chlorinated compounds; preservative for mineral oils; reagent in chemical synthesis.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655

TETRAPOTASSIUM PYROPHOSPHATE

$K_4P_2O_7$. M.W. 330.48. White powder. Somewhat hygroscopic in air. Solubility 190 g. in 100 g. H_2O @ 25°C. (Solubility for tetrasodium pyrophosphate is 8 g. in 100 g. H_2O @ 25°C.) Uses—with textile oils and soaps, degumming oils, soap builder for liquid soaps and shampoos, dyeing and penetrating oils.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif — Trinity 7901
Maas, A R, Chem Co, 4570 Ardine St, S Gate, Calif — Kimball 2214
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wellen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

TETRASODIUM ETHYLENEDIAMINE TETRAACETATE

†Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466

THALLIUM ACETATE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

†Chem Commerce, Newark, N J — Chem Commerce, Newark, N J

THALLIUM CHLORIDE

TlCl. White, crystalline powder. Becomes violet on exposure to light. Sp. gr. 7. M.P. 430°C. Uses—tungsten lamps, medicine, catalyst in chlorination processes.

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600

†Chem Commerce, Newark, N J — Chem Commerce, Newark, N J

THALLIUM FORMATE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600

†Chem Commerce, Newark, N J — Var-Lac-Old Chem Co, N Y
Chem Commerce, Newark, N J

THALLIUM IODIDE

†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600

†Chem Commerce, Newark, N J — Chem Commerce, Newark, N J

THALLIUM METAL

Tl. M.W. 204.39. Sp. gr. 11.85. M.P. 302°C. B.P. 1457 ± 10°C.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490

†Amer Smelting & Refg Co, N Y — Var-Lac-Old Chem Co, N Y
Mackay, A D, Inc, N Y

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Formate — Oxide
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CITY CHEMICAL CORP.

132 W. 22nd St. New York 11, N.Y. WA 9-2723

THALLIUM SALTS

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

†Chem Commerce, Newark, N J — Mackay, A D, Inc, N Y
Chem Commerce, Newark, N J

THALLIUM SULFATE (Thallous Sulfate)

Tl_2SO_4. Solid white or colorless powd. Sp. gr. 6.76. M.P. 632°C. Sol. water. Uses: chemical catalyst; in alloys; as a rat poison; insecticide; in photoelectric cells; for treating fabrics to prevent attacks of insects and mildew; in medicine; in glass manufacture; to prolong life in tungsten lamps; as an anti-knock addition to motor fuel. Grades—tech.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Amer Smelting & Refg Co, N Y — Var-Lac-Old Chem Co, N Y

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Ilmenite	Eserine Salts
Monazite	Hyoscine Salts
Zircon	Lactic Acid
Manganese	Citric Acid
Chrome Ore	Tartaric Acid
Mesothorium	Trichlorethylene
Shellac	Perchlorethylene

MERCANTILE IMPORT & EXPORT CORP.

Lex 2-2445 21 E. 40th St., New York 16, N. Y.

THEOBROMINE (3,7 Dimethylxanthine)

$C_7H_8O_2N_4$. M.W. 180. White bitter crystalline powder. Use: medicine.

†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Woodward & Dickerson, Inc, Phila, Pa

THEOBROMINE SODIUM SALICYLATE (Diuretin, Theobromine Sodio-Salicylate)

Mixture of sodium theobromine and sodium salicylate in molecular proportions, containing 1 H_2O. White, odorless or nearly odorless, hygroscopic powder. Sol. water; slightly sol. alcohol. Uses: medicine, veter. medicine.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

THEOPHYLLINE (Theocin, 1,3-Dimethylxanthine)

$C_7H_8O_2N_4.H_2O$. M.W. 198.11. White, odorless, bitter crystalline powder. Uses: in medicine as diuretic.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230

Fine Chemicals — BPC

THEOPHYLLINE

BENZOL PRODUCTS CO.
237 SOUTH STREET NEWARK 5, N. J.

THEOPHYLLINE (cont'd)

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Benzol Prods Co, 237 South St, Newark, N J — Market 2-6141
†Burke, Edward S, 65 Pine St, N Y — Bowling Green 9-5785
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Desmo Chem Corp, 565 5 Av, N Y — Plaza 8-3141
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Fisher Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-2587
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
†Gane & Ingram, Inc, 43 W 16 St, N Y — Watkins 4-9404
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

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THINNERS, PAINT, VARNISH, LACQUER

Volatile liquids whose principal use is to reduce paint, varnish or lacquer to the desired consistency for brushing or spraying, which evaporate when the film is applied to a surface. Additional factors are: solvent action, dispersive effect, rate of evaporation, effect of storage, residue after evaporation, wetting action, odor, toxic effect, effect on brushing and leveling, effect on viscosity, etc.

†Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
†Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
†Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
†Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
†Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
†Hercules Powder Co, 978 Market St, Wilmington, Del
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
★†Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
†Newport Industries Inc, 230 Park Av, N Y — Murray Hill 6-7305
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
†Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
†Velsicol Corp, 330 E Grand Av, Chicago, Ill — Delaware 7-7383

†Farinella, Frank C, N Y — †Senn, George, Inc, Phila, Pa

THIOCARBANILIDE (Sulfocarbanilide, a-b-Diphenylthiourea)

$CS(NHC_6H_5)_2$. **Colorless crystalline leaflets. Sp. gr. 1.3205. M.P. 154°C. Sol. alcohol, ether. Uses—mfr. sulfur dyes, indigo, intermediate chemicals, alein pharmaceuticals; as vulcanization accelerator. Grades—tech. 99.5%; lump; powder.**

†Amer Cyanamid Co, Mineral Dressing Div, 30 Rockefeller Plaza, N Y — Circle 7-0100

THIODIETHYLENE GLYCOL (Thiodiglycol, Di-2-Hydroxyethyl Sulfide)

$HOCH_2CH_2SCH_2CH_2OH$. **M.W. 122.18. Non-volatile; hygroscopic; practically colorless. Sol. water. Uses: in printing with vat dyestuffs; pasting basic dyestuffs, such as indulines and nigrosines, difficult to dissolve.**

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

THIOGLYCEROL

†Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071

THIONYL CHLORIDE

$SOCl_2$. **Colorless liq. B.P. 78°C. Decomposes in water. Uses—chlorinating agent in making intermediates, organic chemicals, dyestuffs, pharmaceuticals, and acid chlorides.**

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

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Chemical Division, 26 Broadway, New York 4, N. Y.

THIOPHENE

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600

2-THIOPHENE ALDEHYDE

C_4H_3SCHO. **M.W. 112.14. Colorless to faintly yellowish liquid; odor similar to benzaldehyde. Sensitive to light and oxygen. Uses: research in pharmaceuticals, perfume, dyes, rubber additives, photographic chemicals.**

†Arapahoe Chems Inc, 2800 Pearl St, Boulder, Colo — 613

THIOSEMICARBAZIDE (Amino Thiourea)

$NH_2CSNHNH_2$. **M.W. 91.13. White crystalline powder. Uses: reagent for ketones and certain metals; photography; rodenticide non-toxic to humans.**

†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Hexagon Labs, Inc, 3536 Pearlree Av, Bronx, N Y — Fairbank 4-7550
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543

†National Biochemical Co, Chicago, Ill — Paaray Corp, N Y

THIOUREA (Thiocarbamide, Sulfourea)

$NH_2CS.NH_2$. **White, solid crystalline. Sp. gr. 1.406. M.P. 180°C. Sublimes at 150-160°C. Sol. cold water, ammonium thiocyanate solution, and ether. Uses—mfr. intermediates, rayon, synth. pharmaceuticals dyestuffs, artificial resins; photographic developer; as insecticide; in medicine; sulfide coating mirrors. Grades—tech.**

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judsen 2-1230
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

THIOUREA

(also known as thiocarbamide, sulfocarbamide, sulfourea)

Specifications: White, free-flowing crystals; moisture 0.50% max.; ash 0.05% max.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.

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THIOUREA (cont'd)

Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686

THORIUM (Metal)

Th. M.W. 232.12. Occurs in monazite and thorite. Grayish amorphous or crystalline, soft mass. M.P. 1700°C. Insol. water, alcohol, alkalies or acids; sol. aqua regia. Radioactive.

†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

Mackay, A D, Inc, N Y

THORIUM NITRATE

$Th(NO_3)_4 + 4H_2O$. White crystalline masses. Decomposes on heating. Sol. water, alcohol. Uses—mfr. gas mantles, thorium compounds. Grades—tech.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020

Var-Lac-Old Chem Co, N Y

THORIUM OXIDE

ThO_2. M.W. 264.12. White powder. Insol. cold acid, water. Uses: in refractories, glass, thoriated tungsten filaments.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020

Hooper Chem Corp, Rutherford, N J — Mackay, A D, Inc, N Y

THYMOL (Thyme Camphor, Isopropylmetacresol, Thymic Acid, Methylpropylphenol, Parapropylmetacresol, Hydroxy-Paracymene, Methylhydroxyisopropyl Benzene)

$C_6H_3(CH_3)OH(C_3H_7)$. M.W. 150.11. Colorless cryst., aromatic odor. Sp. gr. 0.969. M.P. 51.5°C. B.P. 231.8°C. Sol. alcohol, carbon disulfide, chloroform, oils, alkali, ether; slightly sol. water, glycerine. Uses—mfr. thymol derivatives, perfume preparations, cosmetics, toilet articles, tooth powd.; laboratory reagent; food preservative; embalming; microscopy; in medicine. Grades—U.S.P.; tech.

Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
†Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

Bingham & Co, Inc, N Y

THYMOL BLUE (Thymol-sulfonphthalein)

$C_{27}H_{30}O_5S$. M.W. 466.5. Green to brownish green crystalline powder, characteristic odor. Uses: pH indicator - pH range 1.2 (red) to 2.8 (yellow) and 8.0 (yellow) to 9.6 (blue).

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8832

THYMOL IODIDE (Dithymol Diiodide; Aristol, Annidalin; Thymetol; Iodistol; Iodohydromol; Iodosol; Iosol; Iothymol; Thymiode; Thymiodol; Thymodin)

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

THYMOLPHTHALEIN

$O.CO.C_6H_4.C:(C_{10}H_{12}O)_2$. M.W. 430.38. Colorless needles. Uses—reagent, indicator.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8832

TIN CHLORIDE (Tin Bichloride, Tin Crystals, Tin Dichloride, Tin Protochloride, Tin Salts, Stannous Chloride)

a. $SnCl_2$. b. $SnCl_2.2H_2O$. White cryst. Sp. gr. 2.71. M.P. a. 246°C. b. 37.7°C. B.P. a. 603-628°C. b. decomposes. Sol. water, alcohol, tartaric acid and alkalies. Uses: mfr. lakes, inks; mordant in dyeing and printing textiles; discharge in printing textiles, and in ceramic glazes; silvering glass mirrors; tin galvanizing and electroplating; reducing agent in making intermediates, organic chemicals, dyestuffs, organic and inorganic salts, in chemical processes; metallurgical purposes; laboratory reagent; in medicine. Grades—tech. cryst.; 50% solution; C.P.

Baker's chemicals

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Stannous Chloride Tech.

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PHILLIPSBURG, N. J.
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†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Metal & Thermit Corp, 100 E 42 St, N Y — Murray Hill 6-5300
†Nederlandsch Verkoopkantoor Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430

†Jordan Co, Chicago, Ill

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Sodium Stannate
Stannous Chloride (Anhydrous)
Stannous Sulphate
Stannous Oxide
Tin Oxide
Tin Tetrachloride
Organo Tin Chemicals
Potassium Stannate
Barium Stannate

METAL & THERMIT CORPORATION
100 EAST 42nd STREET, NEW YORK 17, N. Y.

TIN FLUOBORATE (Stannous Fluoborate)

$Sn(BF_4)_2$. M.W. 292.3. 47% solution colorless liquid. Uses: in tin and tin alloy plating baths; sensitizing plastic before silver plating.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

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Stannous Chloride (Anhydrous)
Stannous Sulphate
Stannous Oxide
Tin Oxide
Tin Tetrachloride
Organo Tin Chemicals
Potassium Stannate
Barium Stannate

METAL & THERMIT CORPORATION
100 E. 42nd STREET, NEW YORK 17, N. Y.

TIN NAPHTHENATE

M.W. 580 average. 20% metal. Amber-brown solid, sol. hydrocarbons. Uses: anti-oxidant and sludge preventive in lube oils.

†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

TIN OLEATE

†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

TIN OXALATE (Stannous)

SnC_2O_4. M.W. 206.71. White pwdr. Sol. in dilute hydrochloric. Uses—in dyeing and printing.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Metal & Thermit Corp, 100 E 42 St, N Y — Murray Hill 6-5300

TIN OXIDE (Stannous Oxide, Tin Protoxide, Flowers of Tin)

SnO. Brownish-black powd. Sp. gr. 6.45. Decomposes on heating. Sol. alcohol, and solutions of ammonium chloride. Uses—mfr. intermediates, organic chemicals; as opacifier; reducing agent for chemical purposes. Grades—C.P.; tech.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Metal & Thermit Corp, 100 E 42 St, N Y — Murray Hill 6-5300
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

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Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Hooper Chem Corp, Rutherford, N J — Los Angeles, Calif
†Kirk, Morris P, & Son, Inc, — †Shields, Thomas J, Co, N Y

TIN PROTEINATE

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

TIN SULFATE

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Metal & Thermit Corp, 100 E 42 St, N Y — Murray Hill 6-5300

TIN TETRACHLORIDE (Tin Salt, Stannic Chloride)

$SnCl_4$. M.W. 260.53. Colorless liq. Sp. gr. 2.232. F.P. —33°C. B.P. 114°C. Sol. cold water, alcohol, carbon disulfide, and oil of turpentine. Decomposed by hot water. Tin tetrachloride of commerce is tin and sodium tetrachloride. $Na_2SnCl_6.H_2O$. Uses: mfr. ceramics, color lakes, pharmaceuticals, fuchsine and other dyes; mordant in dyeing and printing textiles; brightening colors on wool; weighting silk; tinning; bleaching sugar. Grades—tech. (cryst.).

†Metal & Thermit Corp, 100 E 42 St, N Y — Murray Hill 6-5300

TITANIUM (Metal)

Ti. At.W. 47.9. Metallic element of the carbon group, dark gray, amorphous. Sp. gr. 4.5. M.P. 1800°C. Insoluble in water, soluble warm hydrochloric acid. Uses—mfr. of alloys.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
†Metal Hydrides, Inc, 16 Congress St, Beverly, Mass — Beverly 1875
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

Mackay, A D, Inc, N Y

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TITANIUM CYANONITRIDE

★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

TITANIUM DIOXIDE (Titanic Acid Anhydride, Titanium White, Titania)

TiO_2. White to black crystalline powd. Sp. gr. 3.75-4.25. M.P. 1560° C. Sol. concentrated sulfuric acid. Uses—mfr. vitreous enamels; arc-welding rod coatings; opacifier for paper; pigmentation of white rubber; pigment for printing textiles, titanium salts, paint and varnish pigment; catalyst in making intermediates, dyestuffs, and organic chemicals. Grades—tech.; pure.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
De Beer Inc, 636 11 Av, N Y — Plaza 7-0960
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870

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Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Akron Chem Co, Akron, O
†Chem & Pigments Co, Oakland, Calif
Eastern Color & Chem Co, N Y
†Linde Air Prods Co, N Y
MacHale, A J, N Y

TITANIUM HYDRIDE

†Metal Hydrides, Inc, 16 Congress St, Beverly, Mass — Beverly 1875

TITANIUM POTASSIUM OXALATE

$TiO(C_2O_4C_2O_4K)_2.2H_2O$. M.W. 354.13. Greenish white lustrous cryst. Sol. water. Uses—mordant in cotton and leather dyeing.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

TITANIUM TETRACHLORIDE (Titanic Chloride)

$TiCl_4$. M.W. 189.73. Colorless liq., absorbs moisture and evolves dense fumes. Sp. gr. 1.726. F.P. —30°C. B.P. 136.4°C. Sol. dilute hydrochloric acid, and water. Uses—mfr. titanium compounds; for producing iridescent effects in glass and artificial pearls; mordant in dyeing and printing textiles; smoke screens in military warfare. Grades—tech.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
★†Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Wholesale Supply Co, Los Angeles, Calif.

TITANYL SULFATE

$TiOSO_4.2H_2O$. Press cake with 50% sulfuric acid. Sol. water Uses—mfr. dye strippers. Grades—tech.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Kuehne Chem Co, Elizabeth, N J

TOBACCO DUST

Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Iowa Soda Prods Co, Council Bluffs, Iowa

TOLIDINE (Orthotolidine, Orthodiaminoditoyl, Dimethylbenzidine, Diamidodiethyldiphenyl)

$(C_6H_3(CH_3)NH_2)_2$. 1:3:4. White to reddish plates. M.P. 128°C. Sol. alcohol, ether; slightly sol. water. Uses—mfr. dyestuffs. Grades—tech. 96%.

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030

o-TOLIDINE DIHYDROCHLORIDE (Dimethyl Benzidine Hydrochloride)

$C_{14}H_{16}N_2.2HCl$. M.W. 285.21. White crystals. Use: colormetric determination of chlorine in water.

†Carwin Co, Stiles Lane, North Haven, Conn — New Haven 2-2161
†Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
†Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8832
Murbas Trading Co, N Y

p-TOLUENEDIAMINE

$C_6H_3(CH_3)(NH_2)_2$. Colorless, crystalline tablets. M.P. 99°C. B.P. 280°C. Sol. water, alcohol, ether. Uses—mfr. dyestuffs. Grades—tech.

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Feinberg, B G, N Y

p-TOLUENESULFONAMIDE

$CH_3C_6H_4SO_2NH_2$. White, solid crystalline. M.P. 137°C. Sol. alcohol. Uses—mfr. saccharine; in organic synthesis. Grades—tech.

Hexagon Labs, Inc, 3536 Pearlree Av, Bronx, N Y — Fairbanks 4-7550
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

p-TOLUENE SULFONCHLORIDE

$CH_3C_6H_4SO_2Cl$. Rhombic cryst. M.P. 69°C. B.P. 145-146°C. Sol. alcohol, ether. Uses—mfr. acetic anhydride, saccharin, intermediates, organic chemicals, dyestuffs, picramide, salicylaldehyde, methylaniline, paratoluenesulfamide. Grades—tech.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

o-TOLUIDINE

C_7H_9N. M.W. 107.08. Light yellow liq., red on exposure. Sp. gr. 1.0037. B.P. 199°C. Sol. alcohol, ether; very slightly sol. water.

o-TOLUIDINE (cont'd)

Uses—mfr. dyes, flotation oil, saccharin, intermediates, organic chemicals; vulcanization accelerator. Grades—tech. (97-98%).

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Eimer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
†Gen Aniline Wks, N Y

p-TOLUIDINE

C_7H_9N. M.W. 107.8. White plates or leaflets. Sp. gr. 1.046. M.P. 43.7°C. B.P. 200.3°C. Sol. alcohol, ether; very slightly sol. water. Uses—mfr. primulin colors, magenta, intermediates, dehydrothioparatoluidine, metanitro paratoluidine, aceparatoluidine, organic chemicals. Grades—tech. (98.5%).

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

TOLUIDINES, MIXED (Aminotoluene)

Mixture of ortho, meta, and para $CH_3C_6H_4NH_2$. Reddish-brown or light yellow liq. Sol. alcohol, ether; slightly sol. water. Uses—mfr. dyestuffs, flotation oil, saccharin and other pharmaceuticals, primuline and magenta dyes, fuchsine and safranine dyes, intermediates, organic chemicals; rubber accelerator. Grades—tech.

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

TOLUOL (Toluene, Methylbenzene, Methylbenzol, Phenylmethane)

$C_6H_5CH_3$. M.W. 92.06. Colorless refractive liq., benzol-like odor. Sp. gr. 0.86137 (15°C.). M.P. —95.1°C. B.P. 110.7°C. Sol. alcohol, benzol, ether. Uses—mfr. intermediates, organic chemicals, benzoic acid, benzaldehyde, toluidines, pharmaceutical compounds, dyestuffs, tolidines, synth. perfumery, saccharin, sodium benzoate, TNT, rubber cements, stains, and enamels; solvent for coatings in making artificial leather; extracting alkaloids and garbage; solvent in dehairing and other degreasing operations; dry cleansing agent; dressing and finishes for leather, etc.; solvent for rubber, lacquers, varnishes, dopes, fats, oils, rosin; cleansing bone. Grades—pure; commercial; straw colored.

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Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Coaltar Chems Corp, 420 Lexington Av, N Y — Oregon 9-2550
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Nitrogen Prods Inc, 450 7 Av, N Y — Bryant 9-1045
Nitrogen Prods, Inc, Benzol Div, 926 Harrison Av, Kearny, N J — Bergen 4-5478
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536

U·S·S Toluol

Nitration Grade
A.S.T.M. Specification D841-47
Available in tank-car quantities

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United States Steel Corporation Subsidiaries
71 Broadway, New York 6, N. Y.

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TOLUOL (cont'd)

Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Seaboard Industries, 195 Kean St, Paterson, N J — Armory 4-2294
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y — Bowling Green 9-7600
†Velsicol Corp, 330 E Grand Av, Chicago, Ill — Delaware 7-7383

Chem By-Prods Co, Chicago, Ill
Coal Chems, Inc, Chicago, Ill
†Colorado Fuel & Iron Corp, Denver, Colo
Commerce Petroleum Co, Chicago, Ill
Farinella, Frank C, N Y
†Inland Steel Co, Chicago, Ill
†Interlake Iron Corp, Cleveland, O
†Milwaukee Solvay Coke Co, Milwaukee, Wisc
Phillips & Martin Co, Chicago, Ill
Senn, George, Inc, Phila, Pa
Van Waters & Rogers, Inc, Portland, Ore

m-TOLYLENE DIAMINE

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600

TOLYL ALDEHYDE (Para Methyl Benzaldehyde)

$CH_3C_6H_4CHO$. B.P. 85-90°C. at 5 mm. Sp. gr. at 28°C., 1.015. Colorless liquid. Uses—artificial flavor, synthetic aromatic, pharmaceutical and dyestuff intermediate. Grades—tech.; pure.

†Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-5500
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

m-TOLYL DIETHANOLAMINE

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

TONERS, ALKALI

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Brooklyn Color Wks, Inc, Morgan & Norman Ave, Bklyn, N Y — Evergreen 8-8440
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

TONERS, ALKALI BLUE

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Brooklyn Color Wks, Inc, Morgan & Norman Ave, Bklyn, N Y — Evergreen 8-8440
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Allan, Homer G, St. Louis, Mo

TONERS, METHYL VIOLET

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Brooklyn Color Wks, Inc, Morgan & Norman Ave, Bklyn, N Y — Evergreen 8-8440
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Allan, Homer G, St. Louis, Mo — Palmer Supplies Co, Cleveland, O
Eakins, J S & W R, Inc, Bklyn, N Y

TONERS, METHYL VIOLET, PERMANENT

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Brooklyn Color Wks, Inc, Morgan & Norman Ave, Bklyn, N Y — Evergreen 8-8440
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
†Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Federal Color Labs, Inc, Cincinnati, O — Palmer Supplies Co, Cleveland, O

TONERS, RED

Used to produce brilliant red shades in textiles, leather, paints, coatings, etc.: 1. Para Toner, brilliant red with a purple undertone, fairly permanent, but bleeding or striking through; 2. Toluidine Toner, a bright fiery red, more yellow than blue in undertone, more permanent than para, non-bleeding; 3. Lithol Toner, brilliant red with blue undertone, not as permanent as toluidine toner.

†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstaline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
†Brooklyn Color Wks, Inc, Morgan & Norman Ave, Bklyn, N Y — Evergreen 8-8440
†Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Allan, Homer G, St. Louis, Mo — Palmer Supplies Co, Cleveland, O
Eakins, J S & W R, Inc, Bklyn, N Y — †Western Dry Color Co, Chicago, Ill
†Federal Color Labs, Inc, Cincinnati, O

TRIACETIN (Glyceryl Triacetate)

$C_3H_5(C_2H_3O_2)_3$. Colorless, odorless liq. Sp. gr. 1.1666 (15°C.). B.P. 258-9°C. Sol. alcohol, ether, and organic solvents; slightly sol. water. Uses—mfr. intermediates, perfumery; plasticizing agent in plastics and lacquers. Grades—47%.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
City Chems Corp, 132 W 22 St, N Y — Watkins 9-2723
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 3175
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

Roble, Milton F, S Braintree, Mass

TRIALUMINUM PHOSPHATE

Approx. Chem. analysis Al_2O_3 80.9%. P_2O_5 44.0%. Loss on Ign. 26.2%. pH 6.2% (on 5% suspension). Refracted Index (aver.) 1.548 = 0.005 (Ng — Np = low). Uses—in ink manufacture, paper and glass.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

TRIAMINOBENZENE TRIHYDROCHLORIDE

†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919

TRIAMINOTOLUENE TRIHYDROCHLORIDE

†Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919

TRIAMYLAMINE

$(C_5H_{11})_3N$. M.W. 227.27. Yellowish liq. Distillation range, 236°C. 269/C. Sp. gr. (20°C.) 0.7937 Poise. Viscosity (20°C.) 0.01481 Poise. Refractive Index 1.4374 (18°C.). Surface Tension (18°C.) 24.4 Dynes/cm. Sp. Heat at room temp., 0.51 cal./gram. Heat of Vap., 79 cal./gram. Coefficient of Expan. between 20°C. 60°C., 0.00091. Flash Point, 174°F. Insol. water. Completely sol. gasoline. Uses—as a substitute in fields where monoamylamine and diamylamine are used; whether for retarding discoloration of gasoline in dye industry. Purity, minimum 95%.

†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

TRIBROMOMETHANE

Le Bue, Philip J, Co, 230 Park Av, N Y — Murray Hill 9-0060
†Michigan Chem Corp, St Louis, Michigan — 41

2,4,6-TRIBROMOPHENOL

$C_6H_3OBr_3$. M.W. 330.8. Light pink crystals with a faint characteristic odor and sweet astringent taste. M.P. 92°C. Sublimes. Sol. in alcohol and ether, but very slightly sol. in water. Uses—mfr. disinfectant and antiseptic pharmaceuticals.

†Dow Chem Co, Midland, Mich — Midland 500

TRIBUTOXY ETHYL PHOSPHATE

†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Stauffer-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420

TRIBUTYLAMINE

$(C_4H_9)_3N$. Pale yellow liq. B.P., 216.5 C. Sp. gr., 0.778 at 20°C. Only slightly sol. water, but misc. with most organic solvents. Uses—solvent.

†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

TRIBUTYL "CELLOSOLVE"* PHOSPHATE

*(*Reg. Trade-Mark—Carbide & Carbon Chemicals Corp.)*

Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Stauffer-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420

TRIBUTYL PHOSPHATE

$(C_4H_9)_3PO_4$. A very stable liq. of low volatility. Sp. gr. 0.9763 at 20/20°C. Fl.P. 146°C. B.P. approx. 175°C. at 23 mm. of mercury. Uses—a super-high boiling solvent for nitrocellulose lacquers, dopes, and inks; excellent plasticizer for pyroxylin.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770

TRICHLORBENZENE 1:2:4

$C_6H_3Cl_3$. M.W. 181.39. Sp. gr. 1.574. Boiling Range, 2° range including 214½°C. Misc. with alcohols, ether, petroleum products, aromatic solvents, naphthas, turpentine, acetone, carbon tetrachloride.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Dow Chem Co, Midland, Mich — Midland 500
★†Hooker Electrochem Co, 4715 Buffalo Av, Niagara Falls, N Y — 6655
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201

TRICHLORODIPHENYL OXIDE

†Dow Chem Co, Midland, Mich — Midland 500

1,1,1-TRICHLOROETHANE

†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
†Dow Chem Co, Midland, Mich — Midland 500

TRICHLORETHYLENE (Chlorylene, Westrosol, 1, 2, 2,-Trichlor Ethylene)

$CHCl:CCl_2$. M.W. 131.38. Colorless liq., characteristic odor. Heat of Vap., 104.5. Sp. gr. 1.472. F.P. —88°C. V.D. 0.278. B.P. 86.7°C. Pounds/gal., 12.25. Sol. alcohol, ether. S.H. 0.233. Uses—mfr. indigo and other dyestuffs, intermediates, organic chemicals, detersive soaps, pharmaceuticals, perfumes, paints, varnish, leather, rubber; solvent for fats, oils, etc.; degreasing bones for bone glue; laboratory reagent; general solvent. Grades—high purity.

†Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8800
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
†Dow Chem Co, Midland, Mich — Midland 500
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn — Bridgeport 8789
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6854
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700

trichlorethylene

carbon tetrachloride
perchlorethylene
solvents · alkalies · acids

— • —

Industrial Chemicals

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L. J. & M. LAPLACE

HACKENSACK, N. J.

HACKENSACK 3-0412 — BRYANT 9-8069

TRICHLORETHYLENE (cont'd)

Niagara Alkali Co, 60 E 42 St, N Y — Murray Hill 2-8090
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-3653
†Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Ackerman, J C, Co, Pittsburgh, Pa
Chem Sales Corp, Buffalo, N Y
Collier, H C, & Sons, Binghamton, N Y
Dacar Chem Prods, Pittsburgh, Pa
Dixo Co, Garfield, N J
Duso Chem Co, Inc, Poughkeepsie, N Y
Elk, B R, Co, Inc, Garfield, N J
†Farinella, Frank C, N Y
Hughes Chem Supply Co, Inc, Baltimore, Md
Industrial Chem Co, Dayton, O
Marble-Nye Co, Worcester, Mass
Pioneer Salt Co, Phila, Pa
Riverside Chem Co, Inc, N Tonawanda, N Y

Looking for a dependable source of supply for TRICHLORethylene?

SEE NIAGARA

NIALK TRICHLORethylene is produced in a new plant recently completed at Niagara Falls, N. Y. utilizing control equipment that will satisfy the most exacting demands for a product of high quality and superior stability.

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Paradichlorobenzene • Caustic Soda
NIAGATHAL® (Tetrachloro Phthalic Anhydride)
NIALK® TRICHLORethylene

® Trademark

TRICHLOREthylene

JOHN A. CHEW
Incorporated
INDUSTRIAL AND FINE CHEMICALS
60 East 42nd Street, New York 17, N. Y. MU 2-0993

TRICHLOROFLUOROMETHANE

Ansul Chem Co, Marinette, Wis — Marinette 216
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500

TRICHLOROMONOFLUOROMETHANE

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121

2,4,5-TRICHLOROPHENOL

$ClsC_6H_2OH$. M.W. 197.5. Gray flakes to sublimed mass. Very sol. alcohol, benzene, carbon tetrachloride, ether; insol. water. Uses: bacteriaide and fungicide used mainly in leather and adhesive industries.

Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Dow Chem Co, Midland, Mich — Midland 500
†Kolker Chem Wks Inc, 80 Lister Av, Newark, N J — Market 2-5458
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

TRICHLOROPROPANE

†Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
†Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400

TRICHLOROTRIFLUOROETHANE

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Esten Chems Inc, 3100 E 26 St, Los Angeles, Calif — Angelus 9-8183

Tricresyl Phosphate

•

Dioctyl Phthalate

•

Dioctyl Adipate

R. W. GREEFF & CO., INC.

10 Rockefeller Plaza, New York 20, N. Y.
2205 Tribune Tower, Chicago, Ill.

TRICRESYL PHOSPHATE

$C_{21}H_{21}O_4P$. Water-white to straw colored liq. Sp. gr. 1.167 (26°C.) B.P. 275-296°C. Non-inflammable; refractive index. 1.556; congealing point below —20°C; viscosity (at 23.7°C.) 102; dielectric strength 137 Ko.; miscible in all proportions with lacquer solvents and diluents. Sol. ether, alcohol, chloroform, benzol, and glacial acetic acid. Insol. water. Uses—plasticizer in cellulose ester varnishes, lacquers and plastics. Grades—C.P.; tech.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Failek Products Co Inc, 163 Bway, N Y — Barclay 7-7959
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735

TRICRESYL PHOSPHATE

Specifications: Clear, practically colorless liquid sp. g. at 25°/25° C., 1.166 ± 0.007; acidity (as H_3PO_4) 0.01% max.; free phenols (permanganate test), a distinct purple color to be present after 30 minutes.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.

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CHEMICALS | PLASTICS

SERVING INDUSTRY WHICH SERVES MANKIND

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TRICRESYL PHOSPHATE (cont'd)

†Ohio-Apex Inc, Nitro, W Va — Nitro 152
Paga, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Phillips Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Wites Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Monroe Chem Co, Newark, N J — Phillips & Martin Co, Chicago, Ill

TRIETHANOLAMINE (Tri-Hydroxyethyl Amine)

$(HOCH_2CH_2)_3N$. Technical is a mixture of triethanolamine, diethanolamine, and monoethanolamine. Oily almost colorless liq., ammonia odor. Sp. gr. 1.12 1.13 at 20/20. B.P. 277°C. at 180 mm. Sol. alcohol, water, chloroform. Uses—mfr. synth. resins; increasing penetration of organic liquids into cellular wood fibre; for the absorption of acetic gas; preparation of dry cleaning soaps; for preparation of emulsions; mfr. of cosmetic soaps; for increasing the dispersion of dyes.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
†Dow Chem Co, Midland, Mich — Midland 500
Ecclestone Chem Co, Inc, 2669-79 Gusin St, Detroit, Mich — Lo 7-4650
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

Eastern Color & Chem Co, N Y

TRIETHANOLAMINE STEARATE

$(HO.CH_2CH_2)_3N.HOOC.H_{35}C_{17}$. Light tan col. solid. Uses—emulsifying agent for cosmetics, polishes, etc.

†Ninol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625

TRIETHYLAMINE

$(C_2H_5)_3N$. M.W. 101.19. Color—water white. Sp. gr. at 20°/20°C. 0.78, Triethylamine content not less than 98.5%. Distillation—initial boiling point not below 88°C., final boiling point not above 91°C. Flash point 20°F. Wt. per gal. 6.1 lbs. Uses—prep. quaternary ammonium compounds useful as tertile assistants.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

TRIETHYL o-FORMATE (Orthoformic Ester, Triethoxy Methane, Aethon)

$CH(OC_2H_5)_3$. M.W. 148. Colorless liquid; pungent odor. Sol. alcohol, ether, water. Uses: intermediate for Vitamin B_1; antimalarials; polymethine dyes; acetals.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

triethyl phosphate

• Eastman triethyl phosphate is soluble in water and most organic solvents. Although moderately resistant to hydrolysis, it is a promising ethylating reagent. It is used as an intermediate in the preparation of the insecticide tetraethyl pyrophosphate, as an ingredient in sizing compounds, as a dyeing assistant in the textile industry, as a lubricant, and as a flame-resistant plasticizer. Available in 5-gallon cans, drums, and tank cars.

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Co.)
KINGSPORT, TENNESSEE

EASTMAN CHEMICALS

Sales Reps in principal cities—see ad in Catalog Section.

TRIETHYL PHOSPHATE

$(C_2H_5)_3PO_4$. M.W. 182.14. Colorless liq. with mild odor. Sol. in most organic solvents, completely miscible in water, very stable at ordinary temperatures. When mixed with water is quite stable at ordinary temperatures, but at elevated temperatures it hydrolyzes slowly. Purity, not less than 97% ester by weight. Sp. gr., 1.068 to 1.072 at 20°C./20°C. Acidity, not more than 0.02% calculated as phosphoric acid, and using phenolphthalein as the indicator; not more

TRIETHYL PHOSPHATE (cont'd)

than 0.229 mg.KOH required for neutralising 1 gram. Water, no turbidity when one vol. is mixed with 19 volumes of 60° Be. gasoline at 20°C. Distillation range: 190°C.-220°C., not more than 5% distilling below 210°C. B.P., 216°C. Refract. Index, 1.4065 at 20°C. Weight per gal., 8.90 lbs. at 68°F. Uses—solvent for cellulose nitrate and cellulose acetate; compatible with many gums and resins. A super high-boiling solvent and plasticiser in the manufacture of plastics and coating compositions. Very difficultly flammable and contributes in formulation of flame-proofing compounds.

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
★†Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

TRIETHYLENE GLYCOL

$HOCH_2(CH_2OCH_2)_2CH_2OH$. Colorless, hygroscopic, practically odorless liq. B.P. 276°-288°C. Sol. water, immiscible benzol, toluol, insol. gasoline. B.R. not less than 95% distills below 297°C. (760 mm.). Initial B.P. 280°C. (760 mm.). Sp. gr. 1.125 at 20/20°C. Weight 9.3 lbs. per gal. (20°C.). Uses—sol. for nitrocellulose; increases pliability and flexibility in plastics; synthesis of organic compounds; hydroxyl groups can be exchanged for ether groups or esterified to form a series of compounds used as plasticizers. Grades—tech.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

TRIETHYLENE TETRAMINE

$NH_2(C_2H_4NH)_2C_2H_4NH_2$. M.W. 146.24. Viscous liquid. B.P. 277.6°C. Sol. in water and most organic solvents. Sp. gr. 0.9818 at 20/20°C. Wt. per gal., 8.2 lbs. at 20°C. Uses—mfr. detergents and softening agents; intermediate in mfr. rubber accelerators, and dyestuffs.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

TRIFLUOROPENTACHLOROPROPANE

†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

TRIFLUOROTRICHLOROPROPANE

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

TRIGLYCOL DICHLORIDE

$Cl(C_2H_4O)_3C_2H_4Cl$. M.W. 187.07. Colorless liquid. B.P. 241.3°C. Insol. in water; sol. in chlorinated hydrocarbons. Sp. gr. 1.1974 at 20/20°C. Wt. per gal., 9.9 lbs. at 20°C. Uses—solvent for oils and hydrocarbons; plasticiser; intermediate in organic synthesis of industrial and fine chemicals having special applications.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

TRIISOBUTYLENE

†Atlantic Ref Co, 260 S Broad St, Phila, Pa — Pennypacker 5-2345
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200

TRIISOPROPANOLAMINE

$N(C_3H_6OH)_3$. Crystalline, pure-white solid. Mild, water sol. base M.P., 45°C. B.P. 188.8°C., at 10 mm. Readily form stable, non-darkening soaps that are excellent emulsifying agents and are completely sol. in hydrocarbons. Uses—mfr. oils, soap, cosmetics, pharmaceuticals.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Dow Chem Co, Midland, Mich — Midland 500

TRIISOPROPYLBENZENE

†Dow Chem Co, Midland, Mich — Midland 500

TRIMETHYLAMINE (Secaline)

$(CH_3)_3N$. Easily condensable gas with fishy odor. B.P. 3.2°C.-3.8°C. (765 mm. of mercury). Decomposes between 800-1,300°C. to form hydrogen cyanide and methane. Uses—forms addition compounds with halogens, and nitrites with organic and inorganic acids. Grades—commercial, water sol., 25-30% conc. by wt.

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

TRIMETHYLCYCLOHEXANOL

$CH_3CH(CH_3)CH_2C(CH_3)_2CH_2CHOH$. M.W. 142.33. B.P. 198°C. Menthol-like, aromatic odor. Sol. most organic solvents, hydrocarbons, oils. Insol. water. Uses: menthol and camphor substitute, anti-foaming agent, in mfg. of hydraulic fluids and textile soaps.

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

TRIMETHYLDIHYDROQUINOLINE POLYMER

†Goodrich, B F, Chem Co, Cleveland, O

2,6,8-TRIMETHYL NONANONE-4

★†Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

TRIMETHYLENE BROMIDE (1,3-Dibromopropane)

$BrCH_2CH_2CH_2Br$. M.W. 201.9. Clear, colorless, highly refractive liquid with a sweet, suffocating odor. B.P. 166.5°C. Sp. gr. 1.977 at 25°C. Pounds per gal. 16.49 (25°C.). Miscible with carbon tetrachloride, alcohol and ether. Uses—mfr. cyclopropane, an important anaesthetic; mfr. various organic intermediates for the dyestuff and pharmaceutical industries.

†Columbia Organic Chems Co, Inc, 600 Capital Place, Columbia, S C — 2-7419
†Dow Chem Co, Midland, Mich — Midland 500
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

TRIMETHYLENE CHLOROBROMIDE (1-Bromo-3-Chloropropane)

$CH_2Br\text{-}CH_2CH_2Cl$. Clear, colorless liquid with a characteristic, somewhat sweet odor. Boiling range, 5-95%, 143-145°C. Sp. gr. 1.601 at 25/25°C. Ref. index 1.484 at 25°C. Miscible with the common organic solvents and insoluble in water at 25°C. Uses—organic syntheses.

†Dow Chem Co, Midland, Mich — Midland 500
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

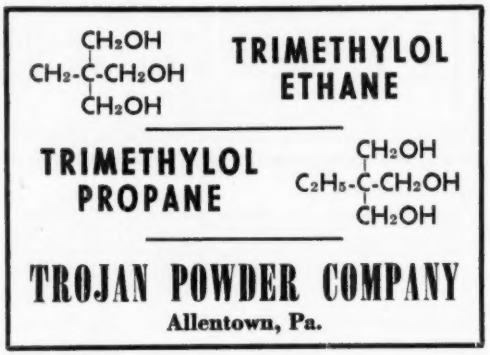
TRIMETHYLENE GLYCOL

†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
†Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500

TRIMETHYLOLETHANE (Pentaglycerine, Methyl-Trimethylol Methane)

$CH_3\text{-}C(CH_2OH)_3$. M.W. 120.15. Colorless crystals, hygroscopic. Sol. water, alcohol. Uses: manufacture of varnishes, alkyd and hard resins, synthetic drying oils; conditioning agent.

†Trojan Powder Co, Allentown, Pa — 45201



TRIMETHYLOLPROPANE (Hexaglycerine)

$C_2H_5\text{-}C(CH_2OH)_3$. M.W. 134.18. Colorless crystals, hygroscopic. Sol. water, alcohol. Uses: manufacture of varnishes, alkyd and hard resins, synthetic drying oils; conditioning agent.

†Trojan Powder Co, Allentown, Pa — 45201

TRINITROTOLUENE (T.N.T.)

$C_6H_2(CH_3)(NO_2)_3$-1,2,4,6. M.W. 227. Light cream colored to buff flakes. Uses: intermediate in dyestuffs and photographic chemicals; in mfg. of detonators, dynamites, military shell loads.

†Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

TRIOXANE

†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

TRIPENTAERYTHRITOL

$C_{15}H_{32}O_7(OH)_4$. M.W. 372.41. White powder. Sol. hot water. Insol. alcohol, ether, hydrocarbons. Uses: manufacture of varnishes, alkyd and hard resins, synthetic drying oils.

†Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
†Trojan Powder Co, Allentown, Pa — 45201

TRIPHENYL PHOSPHATE

$(C_6H_5)_3PO_4$. Colorless, odorless, non-inflam. cryst. M.P. 49°C. B.P. 245°C. Sol. alcohol, benzine, chloroform, ether, acetone, concentrated sulfuric acid; insol. water. Uses—incombustible substitute for camphor in cellulose; rendering acetylcellulose, cellulose formate, nitrocellulose, airplane dopes, etc., non-inflam.; impregnating roofing paper; as lubricant and plasticiser.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Dow Chem Co, Midland, Mich — Midland 500
Fallek Products Co Inc, 165 Bway, N Y — Barclay 7-7939
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661

TRIPHENYL PHOSPHATE

DOW

THE DOW CHEMICAL COMPANY
Midland Michigan
Producing over 600 Chemical Products
Sales Offices: 30 Rockefeller Plaza, N. Y. 20; 3615 Olive St., St. Louis 8; Field Bldg., Chicago 3; 310 Sansome St., San Francisco 4; 634 S. Spring St., Los Angeles 14; 1702 Textile Tower, Seattle 1; Commerce Bldg., Houston 2; 915 Shoreham Bldg., Washington 5; 1400 S. Penn Sq., Philadelphia 2; 20 Providence St., Boston 16; Terminal Tower, Cleveland 13; Fisher Bldg., Detroit 2; 161 Spring St. Bldg., Atlanta 3.
See listing ad for other products

TRIPHENYL PHOSPHATE (cont'd)

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

TRIPHENYL PHOSPHITE

★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

TRIPOLI—see also Diatomaceous Earth

Porous silicious rock. Natural. Uses—mfr. abrasive polishes, scouring soaps, detergents; general filtering medium; absorbent for insecticidal chemicals; general abrasive; paint, wood and rubber filler. Grades—various grades as to fineness for polishing; rose; cream; white.

Chrystal, Charles B. Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Le 7-4650
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749

†Illinois Minerals Co, Cairo, Ill

TRIPROPYLENE GLYCOL

†Dow Chem Co, Midland, Mich — Midland 500

TRIS (HYDROXYMETHYL) AMINOMETHANE

$(CH_2OH)_3CNO_2$. White crystalline solid. M.P. 171-172°C. B.P. 219-220°, at 10 mm. Uses—emulsifying agent in soap form for oils, fats, and waxes; chemical synthesis; absorbent for acidic gases

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
†Dow Chem Co, Midland, Mich — Midland 500

TRIS (HYDROXYMETHYL) NITROMETHANE

$NO_2C(CH_2OH)_3$. M.W. 151. B.P. 165-170°C. B.P. at 10 mm. decomposes. Sol. water, alcohol. Practically insol. in aromatic and aliphatic hydrocarbons

†Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

TRYPTOPHANE—see also Acids, Amino

†Dow Chem Co, Midland, Mich — Midland 500
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400

***dl*-TRYPTOPHANE**

and other

Amino Acids

•

SPECIAL CHEMICALS DIVISION

Winthrop-Stearns INC.

1450 BROADWAY, NEW YORK 18, N. Y.

TRYPTOPHANE-l, Natural

†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400

TUNGSTEN, Metal (Wolfram)

W. Heavy gray to black powder, hard and brittle. Sp. gr. 19.10. M.P. 2974°C. Insoluble in water, soluble in nitric acid and hot hydroxide solutions. Uses—mfr. of alloys, filaments, chemical compounds.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
†Wah Chang Corp, 233 Bway, N Y — Cortlandt 7-0887
†Blum, Paul, Co, Buffalo, N Y — Fansteel Metallurgical Corp, N Chicago, Ill

TUNGSTEN (ORE)

Important minerals are scheelite ($CaWO_4$) and hübnerite ($MnWO_4$). Chief sources of tungsten metal and other tungsten compounds.

Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Wah Chang Corp, 233 Bway, N Y — Cortlandt 7-0887
Amer Metal Co, Ltd, N Y — Gitlan, Charles, & Co, Inc, N Y

TUNGSTEN OXIDE

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Fansteel Metallurgical Corp, N Chicago, Ill — †North Metal & Chem Co, York, Pa

TURMERIC (Curcuma, Curry, Indian Saffron, Terra Merita)

Rhizome of Curcuma longa. Habitat—China, East Indies, etc. Uses—mfr. dye preparations, wallpaper, coloring food, sweetmeats, food preparations, oleomargarine, butter, pickles, curries, baked products, confectionery, stains, varnishes; dyeing textiles; dyeing and tanning leather; laboratory reagent; in medicine. Grades—tech. (Curcuma Longa); Madras; Aleppy; China.

†Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Meer Corp, 318 W 46 St, N Y — Judson 6-0900
Ransom, L E, Co, N Y — Weinstein, Joseph, Phila, Pa

TURPENTINE, GUM

Mixture of a resin and volatile oil obtained from coniferous trees. Yellowish, opaque masses, sticky and glossy, with characteristic odor and taste. Sol.—ether, chloroform, alcohol, and glacial acetic acid. Use—source of turpentine oil.

GUM SPIRITS **TURPENTINE**

STEAM DISTILLED WOOD **TURPENTINE**

SULPHATE WOOD **TURPENTINE**

Gum Rosin — Pine Oil — Wood Rosin
Gloss Oil — Rosin Oils — Dipentene
TALL OIL

CHAS. L. READ & CO.
120 Greenwich St., New York 6, N. Y.
Telephone WOrth 4-1131

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Gumport, E, Corp, 75 West St, N Y — Whitehall 4-9199
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9910
Sessions-Gifford Co, Inc, 255 Allens Av, Providence, R I — Hopkins 1-0770
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Colledge, E W, GSA, Inc, Jacksonville, Fla
Drouillard, J C, Co, Cleveland, O
Hird & Connor, Inc, Boston, Mass
Industrial Sales Corp, N Y
Moser, George, & Son, Inc, Detroit, Mich
Riverside Chem Co, Inc, N Tonawanda, N Y
Tabler, Wm B, Co, Louisville, Ky
†Taylor, Lowenstein & Co, Mobile, Ala
West Co, Chelsea, Mass
Wilson, T C, Co, San Fran, Calif

TURPENTINE SPIRITS (Terebenthene)

$C_{10}H_{16}$. Colorless liq. Sp. gr. 0.860-0.865. B.P. 155-162°C. Sol. ether, chloroform, carbon disulfide. Uses—mfr. synth. perfumes and camphor, terpin hydrate, eucalyptol, pharmaceutical and detersive preparations, ointments, liniments, soaps, lubricating and insecticidal compositions, sealing wax, ceramics, stove polishes, laundry glosses, vermin destroyers, rubber cements, belt dressings; refining petroleum; engraving and lithography; as insecticide; thinner in paints, varnishes, stains, lacquers, and enamels; general solvent for various purposes; solvent for various varnish and paint resins and other ingredients, resins, waxes, rubber, etc., printing textiles, printing inks, floor, furniture, shoe, and leather polishes, and patent leather; in medicine. Grades—gum spirits; wood spirits. (Wood-steam distilled and destructively distilled).

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg 5-2151
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Cole & De Graf, San Fran, Calif	†Taylor, Lowenstein & Co, Mobile, Ala

HERCULES

TURPENTINE

Steam-distilled wood turpentine, a pure spirits of turpentine. Conforms with A.S.T.M. and Federal Specifications.

GM50-3

HERCULES POWDER COMPANY INCORPORATED

Wilmington, Delaware

TURPENTINE STEAM-DISTILLED WOOD

$C_{10}H_{16}$. Colorless liq. Sp. gr. 0.860-0.866. Ref. Ind. 1.465-1.468 at 20°C. B.P. 150°-170°C. Sol. in ether, chloroform. Uses—same as gum turpentine.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
†Hercules Powder Co, 978 Market St, Wilmington, Del	
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
†Newport Industries Inc, 230 Park Av, N Y	Murray Hill 6-7305
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2173
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Hird & Connor, Inc, Boston, Mass	†Southern Naval Stores Div, Leach Bros, Columbia, Miss
Hood Chem Co, Kansas City, Mo	
Industrial Sales Corp, N Y	†Taylor, Lowenstein & Co, Mobile, Ala
Moser, George, & Son, Inc, Detroit, Mich	West Co, Chelsea, Mass
Rimco Trading Corp, N Y	Wilson, T C, Co, San Fran, Calif
Schibley & Ossmann, Inc, Cleveland, O	Zimmerman, C L, Co, Cincinnati, O

PAINT OILS
Linseed Oil—Turpentine—Driers—Shellac—Removers

LUBRICANTS
Machine Oils—Auto Oils—Grease

PETROLEUM THINNERS and SOLVENTS
Naphthas—Mineral Spirits—Diluents

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Benzol—Toluol—Xylol

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LOngbeach 1-2146

TURPENTINE SUBSTITUTES

Special fractions of petroleum oils (usually with a boiling point of 130-160° C., and a specific gravity of 0.74-0.77) used in the place of turpentine as a paint thinner, etc.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
†Newport Industries Inc, 230 Park Av, N Y	Murray Hill 6-7305
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146

†Impoll Co, Inc, Jersey City, N J

TURPENTINE SULPHATE WOOD

Recovered from the sulfate cooking of wood pulp in the manufacture of kraft paper. Water-white liquid. Uses—as thinner in paint, for same purposes as the other turpentines.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Camp Mfg Co, 60 E 42 St, N Y	Murray Hill 7-4888
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Gumpert, E, Corp, 75 West St, N Y	Whitehall 4-9199
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
†Newport Industries Inc, 230 Park Av, N Y	Murray Hill 6-7305
Read, Chas L, & Co, 120 Greenwich St, N Y	Worth 4-1131
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y	Lexington 2-5806
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907
Drouillard, J C, Co, Cleveland, O	Riverside Chem Co, Inc, N Tonawanda, N Y
†Glidden Co, Jacksonville, Fla	
Rimco Trading Corp, N Y	Wilson, T C, Co, San Fran, Calif

TURPENTINE, VENICE

Yellowish liq., pleasant aromatic odor. Sp. gr. 0.865-0.878. Optical No. —8 to —11°C. Refractive No. 1.46924. Acid No. 0. Ester No. 5.9. Sol. alcohol, ether, glacial acetic acid and acetone. Uses—mfr. varnishes. Grades—true Venice; artificial.

Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
†Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
†National Rosin Oil Prods, Inc, 1270 6 Av, N Y	Circle 7-4473
†Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907
†Glidden Co, Jacksonville, Fla	Smith Crude Drug & Spice Corp, N Y
†Mobile Rosin Oil Co, Mobile, Ala	†West Co, Chelsea, Mass

TYROSINE (l-Tyrosine; alpha Amino-beta-Parahydroxyphenyl-propionic Acid; beta-(Parahydroxyphenyl)-Alanine)

$HOC_6H_4C_2H_3(NH_2)COOH$. M.W. 181.28. White, crystalline powder; forms needles when crystallized from aqueous solution. M.P., decomposes at 290° C. Sp. gr. 1.456 at 20° C. Very slightly sol. in water and alcohol; insol. in ether. Sol. in dilute acids and alkalies. Grades—C. P., practical.

†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
†Dow Chem Co, Midland, Mich	Midland 500
†Fairmount Chem Co, Inc, 136 Liberty St, N Y	Barclay 7-6375
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-5176
Paragon Div, Matheson Co, Inc, E Rutherford, N J	Rutherford 2-9500
†Winthrop-Stearns Inc, 1450 Bway, N Y	La 4-6400

TYROSINE-l, NATURAL (p-Hydroxyphenyl-a-Aminopropionic Acid, Hydroxyphenylalanine)

$C_9H_{11}O_3N$. M.W. 181. White needles. Use: plant and animal proteins.

†Corn Prods Refg Co, 17 Battery Pl, N Y	Whitehall 4-0880
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Sheffield Farms Co, Inc, Chemurgic Div, P O Box 630, Norwich, N Y	Norwich 915
†Winthrop-Stearns Inc, 1450 Bway, N Y	La 4-6400

TYROTHRICIN

Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

ULTRAMARINE BLUE (Artificial Lapis Lazuli)

$Na_7Al_6Si_6O_{24}S_3$. Dark blue, amorp. lumps or powd. Natural and manufactured. Uses—mfr. laundry blue, artists' colors, mottled soap, blue cement, tiles and other ceramic products, printing inks, paints and varnishes; general blue pigment; printing calico; whitening sugar; lithography and bookbinding; added to correct yellowish tinge in textiles and white writing paper; printing wallpaper; coloring paper, match head compositions, rubber, patent leather, sealing wax, oilcloth, linoleum, Celluloid, and other plastics. Grades—tech.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
Filo Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y	Murray Hill 3-8350
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md	Laurel 454
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810

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(TITANIUM DIOXIDE)

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ULTRAMARINE BLUE

For paper, paint, laoquer, inks, rubber and related products

AMERICAN Cyanamid COMPANY
CALCO CHEMICAL DIVISION
PIGMENT DEPARTMENT
BOUND BROOK, NEW JERSEY

Boston • Philadelphia • Providence • New York • Charlotte • Chicago

ULTRAMARINE BLUE (cont'd)

Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Allan, Homer G, St. Louis, Mo — Jensen & McClelland, Chicago, Ill

UMBERS

Brown, amorp. pwr. Natural. Sp. gr. 2.68 (raw), 3.80 (burnt). Uses—mfr. stains and enamels; paint and varnish pigment; in printing trades; coloring leather, textiles, paper, wallpaper, inks, and wood. Grades—based on tinctorial power and iron content, best coming from Cyprus.

Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
LaPlace, L J & M, 85 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
†Mineral Pigments Corp, Muirkirk, Md — Laurel 454
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749

†Deutz, Theodore H, Co, Bklyn, N Y
Egleston, Wm D, Co, Cambridge, Mass
†Landers-Segal Color Co, Bklyn, N Y
†Smith, J Lee, & Co, Inc, N Y
†Williams, C K, & Co, E St Louis, Ill

n-UNDECYL BROMIDE

†Columbia Organic Chems Co, Inc, 600 Capital Plaza, Columbia, S C — 2-7419
†Halogen Chems, Inc, 616 King St, Columbia, S C — 7125

UNDECYL STEARATE

Brooks, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030

URACIL

Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-3942

URANINE

$C_{20}H_{10}O_5Na_2$. M.W. 376.18. Sodium salt of fluorescein. Yellowish-brown powder. Sol. water, alcohol. Uses—medicine; dyeing of silk and wool.

Assend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
†L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
†N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

URANIUM NITRATE (Uranyl Nitrate)

$UO_2(NO_3)_2 + 6H_2O$. Yellow, odorless cryst. Sp. gr. 2.807. M.P. 60.2°C. B.P. 118°C. Sol. water, alcohol, ether. Uses—mfr. uranium salts, uranium glass; in photography and medicine. Grades—tech.; C.P.; U.S.P.

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Hooper Chem Corp, Rutherford, N J

URANIUM OXIDE (Uranic Oxide, Pitchblende, Uranium Dioxide)

U_3O_8. Black, or orange-red, amorp. powd. Sp. gr. 7.31. Sol. acids; insol. water. Uses—mfr. ceramics, paint pigments, glass; as chemical catalyst; in photography. Grades—tech.

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

CMC Chemicals

UREA

Sodium Bicarbonate
Perchlorethylene
Trichlorethylene
Sal Ammoniac
Tropical Bleaching Powder (Stabilized)
Chloroform
Sodium Perborate
Ammonium Carbonate
Ammonium Bicarbonate
Sodium Sulphide
Sodium Hydrosulphite

CHEMICAL MANUFACTURING CO., INC.
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UREA (Carbamide, Carbonyldiamide)

$CO(NH_2)_2$. White cryst. M.W. 60.047. Sp. gr. 1.335 at 20°/4°C. (solid). M.P. 132.7°C. Sol. water, alcohol, benzene; slightly sol. ether. Uses—mfr. various intermediate chemicals and pharmaceuticals; as fertilizer; stabilizer in explosives and nitrocellulose plastics; in medicine. Grades—tech. C.P.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Farstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Conway Prods Co, 510 6 Av, N Y — Oregon 5-2505
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
†Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Golwynne Chems Corp, 420 Lexington Av, N Y — Murray Hill 6-3600
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-5687
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Nederlandsch Verkoopkantoor, Voor Chemische Producten N V, Mauritskade 63, Amsterdam, Holland
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676

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UREA (cont'd)

Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
†United Sterling Corp, 37 E 28 St, N Y — Murray Hill 9-2686
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Bingham & Co, Inc, N Y — Wilkoff, David L, Co, N Y
Hardy, M W, & Co, Inc, N Y

UREA PEROXIDE

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
Becco Sales Corp, Buffalo, N Y — Bedford 8300
†Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300

URETHAN—see also Ethyl Carbamate

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
†Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
†U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

VALINE—see Acids, Amino

dl-VALINE

†Dow Chem Co, Midland, Mich — Midland 500
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
†Winthrop-Stearns Inc, 1450 Bway, N Y — La 4-6400

VALONIA

Acorn cups of Quercus aegilops. Habitat—Greece, Asia Minor and France. Uses—tanning leather. Grades—Beard (40% tannin); Cups (28-38% tannin).

Heap, F J, & Son, Inc, Boston, Mass — Lundt & Co, N Y

VANADIUM (Metal)

V. At.W. 50.95. Rare metal, light gray in color. Sp. gr. 5.866. M.P. 1715°C. Insoluble in water or alcohol but soluble in acids. Uses—in metallurgy; mfr. of catalyst.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
†Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651

†Barium & Chems, Inc, Willoughby, O — †Vanadium Corp of Amer, N Y
Mackay, A D, Inc, N Y

VANADIUM CHLORIDE

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Vanadium Corp of Amer, N Y

VANADIUM PENTOXIDE (Vanadic Acid Anhydride)

V_2O_5. M.W. 181.9. Yellowish or red crystalline powd. Sp. gr. 3.357. M.P. 690°C. Sol. mineral acids, alkalies; slightly sol. water. Uses—mfr. black ink, vanadium salts, ceramics; inoculation for plants; ultra violet transmission; catalyst in making intermediates, organic chemicals, aniline black, dyes, and sulfuric acid; coloring glass red; photographic developer and toner; dyeing textiles; in medicine. Grades—tech.; C.P.; air dried and fused.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723

†Barium & Chems, Inc, Willoughby, O — Metallurg, Inc, N Y
Chem Commerce, Newark, N J — †Vanadium Corp of Amer, N Y
Mackay, A D, Inc, N Y

VANADIUM SULFATE (Vanadyl Sulfate)

$(VO)_2(SO_4)_3$. Blue cryst. powd. Sol. water. Uses—mfr. colored glass blue and green glazes on pottery and porcelain; technical mordant in dyeing and printing textiles.

†Vanadium Corp of Amer, N Y

VAN DYKE BROWN (Cassel Brown, Cassel Earth, Cologne Brown, Cologne Earth, Rubens Brown, Umin Brown)

Natural solid. Mixtures of iron oxide and organic matter. Insol. water. Uses—as paint pigment. Grades—varying according to iron oxide content and tinctorial value.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y — Barclay 7-2151
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
†Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Amer Lignite Prods Co, Ione, Calif — Smith, J Lee, & Co, Inc, N Y

VANILLIN (Methylprotocatechuic Aldehyde, Methoxyhydroxy-Benzaldehyde)

$C_8H_8O_3$. M.W. 152.1. Colorless needles. M.P. 80°C. Sp. gr. 1.056. Slightly sol. water, sol. alcohol, ether or glycerol. Uses—as a reagent; flavoring agent.

VANILLIN MONSANTO
(Vanillin, U. S. P.)

Fine, white crystalline needles; odor, characteristic; m.p. 81.5° C., 179° F. min. (U.S.P. 80.0° C. min.); b.p. 545° F.; loss on drying, 0.06% max.; solubility in alcohol (1:2), complete; 60 mesh. 1 oz. free sample.

ETHAVAN
(Ethyl Vanillin)

Fine, white crystalline needles; odor, characteristic; completely soluble in ethyl alcohol 95% (1:2); ash 0.05% max.; m.p. 76.5° C., 170° F. min.; 80 mesh. 1 oz. free sample.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division, St. Louis 4, Mo.

Ethavan: Reg. U. S. Pat. Off.

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Amer Quinine Co, 15 William St, N Y — Hanover 2-7983
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Consumers Prods Co, 99 Hudson St, N Y — Walker 5-0709
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Maywood Chem Wks, 100 W Hunter Av, Maywood, N J — Hackensack 2-2020
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Robert & Co, Inc, 60 Broad St, N Y — Digby 4-4870
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950

VANILLIN
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445 Lake Shore Drive, Chicago 11, Ill.
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VANILLIN (cont'd)

Sterwin Chems, Inc, 1450 Bway, N Y
Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

Grove, M O, & Co, San Fran, Calif
Legion Export & Import Co, Inc, N Y
Lyon Chems, Inc, St. Paul, Minn
Zink & Triest Co, Phila, Pa

VERMICULITE

$3MgO—(FeAl)_2O_3.3SiO_2$. A mineral. Uses: Tabulation of the Tennessee Valley Authority shows the following uses for calcined vermiculite: insulation, in acoustic plaster, refractory brick, as a filler in plastics, in grease lubricants, in tires and rubber goods, wallpaper printing, outdoor advertising paints, extender for gold and bronze printing ink or paint.

Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
Wyodak Chem Div, Federal F'dry Supply Co, 4610 E 71 St, Cleveland, O — Michigan 8125

VINE BLACK

Obtained from spent wine yeast. Black solid. Uses—mfr. artists colors; copper plate printing. Grades—tech.

†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

VINYL ACETATE

$CH_2{:}CH.CO_2CH_3$. M.W. 86.05. Colorless liq. Sp. gr. 0.9342 (20°C./20°C.). B.P. 163°C. Refract. Index 1.3958. F.P. —3°C. to 8°C. Uses—mfg. synthetic vinyl resins.

†Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
†Du Pont de Nemours, E I, & Co (Inc), (Rayon Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-2307

VINYL CHLORIDE (Ethenyl Chloride, Chloroethylene, Chloroethene)

CH_2CHCl. M.W. 62.48. Gas. B.P. —18°C. at 760 mm. Sp. gr. at 20°/20°C. 0.9121 and 0.9780 at —15°/4°C. Uses—synthesis.

†Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Matheson Co, Inc, 337 Paterson Plank Rd, E Rutherford, N J — Rutherford 2-9500
★†Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371

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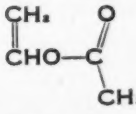
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VINYL CYCLOHEXENE

†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

VINYL PYRIDINE

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Jorala Prods Co, 894 Whittier St, Bronx, N Y — Dayton 3-1137
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

VINYL RESIN PLASTICIZERS

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Allydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★†Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270
†Hercules Powder Co, 978 Market St, Wilmington, Del — Harrison 6-6200
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Nitro 152
†Ohio-Apex Inc, Nitro, W Va — Lombard 3-9860
†Rohm & Haas Co, Washington Sq, Phila, Pa — Murray Hill 5-6020
†Witco Chem Co, 295 Madison Av, N Y
Kendall, J A, Akron, O

VISCOSITY IMPROVERS, LUBRICANTS

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610

VISCOSITY IMPROVERS, LUBRICANTS (cont'd)

Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310
†Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

VISCOSITY IMPROVERS, OILS

†Archer-Daniels-Midland Co, 600 Roanoke Bldg, Minneapolis, Minn — Atlantic 2112
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
†Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
†Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

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Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
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†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
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†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877

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Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
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†Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Sterwin Chems, Inc, 1450 Bway, N Y
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
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†Barnett Labs, Long Beach, Calif — Ulrich Chem Co, Indianapolis, Ind
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VITAMIN B_1 (Thiamine Hydrochloride)

$C_{12}H_{17}ClN_4OS.HCl$. M.W. 337.27. White crystalline powder. Uses: carbohydrate metabolism in the organism.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104

VITAMIN B_1 (cont'd)

Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Sterwin Chems, Inc, 1450 Bway, N Y	
Tutesr & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870
Vitamins Inc, 809 W 58 St, Chicago, Ill	Normal 2727

Gillies & Loughlin, Los Angeles, Calif Ulrich Chem Co, Indianapolis, Ind

VITAMIN B_2

$C_{17}H_{20}N_4O_6$. M.W. 376.36. Orange-yellow, crystalline product, melting at 280-290°C. (with decomposition). It is only slightly soluble in water (0.0025 gram in 100 ccs.), the solution exhibiting an intense yellow-green fluorescence. Readily soluble in caustic soda solution, alcohol, cyclohexanol, and amyl acetate. Insoluble in ether, chloroform, acetone, and benzol. The pure crystalline vitamin is sensitive to light, but it is stable in the dark even at high temperatures. It is also stable toward most oxidizing agents but can be reversibly reduced. A deficiency of this vitamin has an effect on growth and leads to skin lesions of various types. Riboflavin is generally used medicinally but is an essential ingredient of the new enriched flour.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
†Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Sterwin Chems, Inc, 1450 Bway, N Y	
Tutesr & Co, Inc, 60 Wall St, N Y	Digby 4-6660
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870
†U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
Vitamins Inc, 809 W 58 St, Chicago, Ill	Normal 2727

Ulrich Chem Co, Indianapolis, Ind

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Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Vitamins Inc, 809 W 58 St, Chicago, Ill	Normal 2727

Ulrich Chem Co, Indianapolis, Ind

VITAMIN B_6 (Pyridoxine Hydrochloride, Vitamin B_6 Hydrochloride, 2-Methyl-3-Hydroxy-4,5-di-(Hydroxymethyl)-Pyridine Hydrochloride)

M.W. 205.64. White, odorless, crystalline powder. Sol. water; slightly sol. alcohol; practically insol. ether. Use: medicinal.

Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Butcher, L H, Co, 3629 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Sterwin Chems, Inc, 1450 Bway, N Y	
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870
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$C_6H_8O_6$. M.W. 176.12. White crystalline powder; odorless; characteristic acidic taste. Uses: essential to animal life; therapeutically in treatment of scurvy and primary allied hemorrhagic conditions.

Amer Quinine Co, 15 William St, N Y	Hanover 2-7983
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Conray Prods Co, 510 6 Av, N Y	Oregon 5-2505
Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Pfizer,Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Sterwin Chems, Inc, 1450 Bway, N Y	
Tutesr & Co, Inc, 60 Wall St, N Y	Digby 4-6660
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Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Sterwin Chems, Inc, 1450 Bway, N Y
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Ulrich Chem Co, Indianapolis, Ind

VITAMIN D_2

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Dawe's Vitamins, Inc, 4800 S Richmond St, Chicago, Ill — Virgina 3710
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Newport Industries Inc, 230 Park Av, N Y — Murray Hill 6-7305
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Sterwin Chems, Inc, 1450 Bway, N Y
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
†Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

Ulrich Chem Co, Indianapolis, Ind — Wise, Irving, & Co, Inc, N Y

VITAMIN D_3

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
Dawe's Vitamins, Inc, 4800 S Richmond St, Chicago, Ill — Virgina 3710
†Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Sterwin Chems, Inc, 1450 Bway, N Y
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
†Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

Ulrich Chem Co, Indianapolis, Ind

VITAMIN E

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
†Consolidated Midland Corp, Katonah, N Y — Katonah 1010
†Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Sterwin Chems, Inc, 1450 Bway, N Y
Tuteur & Co, Inc, 60 Wall St, N Y — Digby 4-6660
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870
Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

VITAMIN K (Menadione, 2-Methyl-1,4-Naphthoquinone, Menaphthene, Menaphthone)

M.W. 172.17. Bright yellow crystalline, nearly odorless, powder. Practically insol. water; slightly sol. alcohol, chloroform, carbon tetrachloride; sol. benzene, vegetable oils. Use: medicinal.

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Conray Prods Co, 510 6 Av, N Y — Oregon 5-2505
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Lack Chem Co, 19 Park Pl, N Y — Cortlandt 7-5942
La Pine, Arthur S, & Co, 125 W Hubbard St, Chicago, Ill — Superior 4565
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Uhe, George, Co, Inc, 75 S Av, N Y — Watkins 9-0870
†Velsicol Corp, 330 E Grand Av, Chicago, Ill — Delaware 7-7383
†Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

MacHale, A J, N Y — Var-Lac-Oid Chem Co, N Y

VITAMIN K_3

†Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Hexagon Labs, Inc, 3536 Pearlree Av, Bronx, N Y — Fairbanks 4-7550
†Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

VOLCANIC ASH (Tufa, Tuff)

Sedimentary rock composed of volcanic dust, ashes and cinders. Uses—as an abrasive material when processed.

VOLCANIC ASH (cont'd)

Hammill & Gillespie, Inc, 225 Bway, N Y — Barclay 7-5067
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749

Haze, Harry, Inc, Chicago, Ill — †La Rue Axtell Pumice Co, Eustis, Neb
Berkeley, Calif — †Moore & Son, Tucson, Ariz
†Industrial Minerals & Chem Co,

WALNUTSHELL FLOUR

Composition Materials Co, Inc, 28 W 44 St, N Y — Bryant 9-3277
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481

WATTLE BARK (Australian Bark, Mimosa Bark)

Bark of Australian Wattles, Accacia pycnantha, mollissima and binervata. Uses—mfr. tanning extracts; tanning leather. Grades—various (extract-liquid).

Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720

WAX BAYBERRY (Bayberry Tallow, Myrtle Wax)

Green wax. Natural. Sp. gr. 0.875—0.995. M.P. 40—48° C. Slightly sol. alcohol. Uses—mfr. candles, soaps, ointments, etc.; polishing leather; etching resist; in medicine. Grades—tech.

Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Innit, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y — South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
†Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
†Will & Baumer Candle Co, Inc, Park St, Syracuse, N Y — Syracuse 2-0411

Smith & Nichols, N Y — Strohmeyer & Arpe Co, N Y
Steengrafe, D, & Co, Inc, N Y

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WAX BEES (Yellow Wax, Cera Flava)

White to yellowish, solid amorp. Natural. Sp. gr. 0.965—0.969. M.P. 63-64°C. Sol. alcohol, ether, acetone, chloroform. Uses—mfr. wax polishes, furniture polishes, candles, wood polishes and finishes, transparent papers, pomades, toilet preparations, cosmetics, chewing gums, food products, sweetmeats, adhesive compositions; dressing and polishing leather; modeling fruits and flowers; base for plasters, etc.; engraving and lithography; sizing and finishing textiles; in medicine. Grades—U. S. P.—Brazilian; Chilean; African; Indian; domestic: crude; refined; white; yellow.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
Allison, Wm M, & Co, 162 Water St, N Y — Whitehall 3-7421
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712

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WAX BEES (cont'd)

Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Consumers Prods Co, 99 Hudson St, N Y	Walker 5-0709
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Dalton-Cooper Inc, 200 W 34 St, N Y	Longacre 4-2910
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill	Michigan 2-2860
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Grace, W R, & Co, 7 Hanover Sq, N Y	Whitehall 4-1200
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y	Murray Hill 3-8350
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
†Leonhard, Theo, Wax Co Inc, 136 Church St, Haledon, Paterson, N J	Mulberry 4-1444
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y	Beekman 3-3162
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
†Robinson-Wagner Co, 110 E 42 St, N Y	Murray Hill 3-1184
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500

WAX BEES (cont'd)

Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Salomen, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Stein, Hall & Co, Inc, 285 Madison Av, N Y	Murray Hill 9-0800
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Will & Baumer Candle Co, Inc, Park St, Syracuse, N Y	Syracuse 2-0411

†Dadant & Sons, Hamilton, Ill
Howe, W Russell, N Y
Inco Trading Co, N Y
Kuhne-Libby Co, N Y
Laist, H R, Co, San Fran, Calif
McNerney Chem Corp, Los Angeles, Calif
†Smith & Nichols, N Y
Steengrafe, D, & Co, Inc, N Y
Strohmeyer & Arpe Co, N Y
Stumpf, Alfred F, Co, N Y
Wessel-Dural Co, N Y
Wilson, T C, Co, San Fran, Calif

WAX BEES SUBSTITUTE

†Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
†Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512

†Mitchell Rand Mfg Co, N Y
†Smith & Nichols, N Y
Stumpf, Alfred F, Co, N Y

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Yellowish-brown, solid, natural asorp. Sp. gr. 0.983. M.P. 67-68°C. Saponification number 65. Iodine number 37. Sol. chloroform, turpentine. Uses—mfr. leather dressing, furniture, shoe polishes, candles, cements, varnishes, sealing wax, electrical insulating compositions, phonographic records, paper size, celluloid, rubber; waterproofing and insect-proofing containers; in paint removers; soft wax stiffener; substi-

†Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
Allison, Wm M, & Co, 162 Water St, N Y	Whitehall 3-7421
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Duff Chem Co, Inc, 342 Madison Av, N Y	Murray Hill 7-6502
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y	Hanover 2-3750
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Grace, W R, & Co, 7 Hanover Sq, N Y	Whitehall 4-1200
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
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WAX CANDELILLA (cont'd)

Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
†Irmis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
†Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
Stein, Hall & Co, Inc, 285 Madison Av, N Y	Murray Hill 9-0800
Will & Baumer Candle Co, Inc, Park St, Syracuse, N Y	Syracuse 2-0411
Knapp, Harry G, St Louis, Mo	Strohmeyer & Arpe Co, N Y
Norco Prods Co, Phila, Pa	Stumpf, Alfred F, Co, N Y
Smith & Nichols, N Y	

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Yellowish-green or light yellow lumps, agreeable odor. Natural. Sp. gr. 0.995 (15°C.). M.P. 84-86°C. Sap. No. 88.3. Acid No. 2-9. Iodine No. 13.17. Sol. ether, hot alcohol, alkalies. Uses—mfr. shoe and furniture polishes, lacquers, varnishes, phonographic records; carbon paper coating; hardening candles; leather finishes; in electrical insulating compositions; waterproofing textiles, wood, etc.; substitute for beeswax. Grades—No. 1 yellow; No. 2 N.C.; No. 2 regular; No. 3 N.C.; No. 3 chalky.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
Allison, Wm M, & Co, 162 Water St, N Y	Whitehall 3-7421
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201

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WAX CARNAUBA (cont'd)

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Boler Petroleum Co, 121 So Broad St, Phila, Pa	Kingsley 5-1323
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Coburn, C B, Co, 63 Market St, Lowell, Mass	Lowell 9331
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Dodwell & Co, Ltd, 120 Wall St, N Y	Hanover 2-1580
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216

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General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Grace, W R, & Co, 7 Hanover Sq, N Y	Whitehall 4-1200
Howe & French, 99 Bread St, Boston, Mass	Hancock 5910
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500

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†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
†Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120

WAX CARNAUBA (cont'd)

Stein, Hall & Co, Inc, 285 Madison Av, N Y	Murray Hill 9-0800
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091
Will & Baumer Candle Co, Inc, Park St, Syracuse, N Y	Syracuse 2-0411
†Allied Wax & Oil Prods Corp, N Y	Smith & Nichols, N Y
Cooper, T G, & Co, Inc, Phila, Pa	Strohmeyer & Arpe Co, N Y
Inco Trading Co, N Y	Stumpf, Alfred F, Co, N Y
Knapp, Harry G, St Louis, Mo	Wessel-Duval Co, N Y
Norco Prods Co, Phila, Pa	Woodward & Dickerson, Inc, Phila, Pa

WAX CARNAUBA, SUBSTITUTE

†Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
†Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
†Tilbury Refg Corp, 21-29 Dunham Pl, Bklyn, N Y	Evergreen 8-6455
†Velsicol Corp, 330 E Grand Av, Chicago, Ill	Delaware 7-7383
†Amer Lignite Prods Co, Ione, Calif	Kuhne-Libby Co, N Y
†Cooper, T G, & Co, Inc, Phila, Pa	†Mitchell Rand Mfg Co, N Y
Drummond, S P, Inc, N Y	Stumpf, Alfred F, Co, N Y

WAX CERESIN (Ceria, Cerosin, Earth Wax, Mineral Wax, Purified Ozokerite)

Refined ozokerite, usually white or yellow, solid amorp, odorless. Natural. Sp. gr. 0.92-0.94. M.P. 68-72°C. Sol. alcohol, benzene, chloroform, naphtha. Uses—mfr. candles, shoe, floor and leather polishes, antifouling paints, wood polishes and fillers, incandescent gas mantles, paper size, waxed paper, lubricating compositions, waxes, figures and forms, toys, dolls, bottles for hydrofluoric acid; in electrical insulations; general size; impregnating and preserving agent; substitute for beeswax in crayons, perfume pastes, pomades, cosmetics, salves and other pharmaceutical products; matrix compositions in printing; printing forms; rubber mixtures; waterproofing textiles and cloth; textile dressing. Grades—white, yellow.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
†Allison, Wm M, & Co, 162 Water St, N Y	Whitehall 3-7421
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
†Boler Petroleum Co, 121 So Broad St, Phila, Pa	Kingsley 5-1323
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
†Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Howe & French, 99 Bread St, Boston, Mass	Hancock 5910
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
Parsens, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y	Beekman 3-3162
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y	Worth 4-0120
†Tilbury Refg Corp, 21-29 Dunham Pl, Bklyn, N Y	Evergreen 8-6455
†Will & Baumer Candle Co, Inc, Park St, Syracuse, N Y	Syracuse 2-0411
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8363
†Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907
†Allied Wax & Oil Prods Corp, N Y	†Mitchell Rand Mfg Co, N Y
Berlow & Schlosser Co, Providence, R I	†Smith & Nichols, N Y
Knapp, Harry G, St Louis, Mo	Strohmeyer & Arpe Co, N Y
Kuhne-Libby Co, N Y	Wiswell & Co, Belmont, Mass

WAX CHINESE (Insect Wax, Vegetable Spermaceti, Tree Wax, Wrongly Called Japanese Wax)

Secretion of insect inhabiting ash trees Western China. White to yellowish, odorless, almost tasteless solid. Sp. gr. 0.970 (15°C.). M.P. 81°C. Sol. benzene. Slightly sol. alcohol, ether. Uses—mfr. candles, leather and furniture polish; in treating silk and cotton fabrics; sizing and glazing papers.

Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717

WAX EXTRACT

Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895

WAX JAPAN (Japan Tallow, Insect Wax, Vegetable Wax of Japan, Sumac Wax)

Pale yellow flat cakes. Derived from Rhus. Natural. Sp. gr. 0.970-0.980. M.P. 53°C. Saponification No. 210-230. Iodine No. 5-12. Acid No. 7.35. Sol. benzol, naphtha. Uses—mfr. furniture, shoe and floor polishes, candles, wax matches, leather, polishing and finishing compositions; substitute for beeswax. Grades—tech.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y	Hanover 2-3750
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Howe & French, 99 Bread St, Boston, Mass	Hancock 5910
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
†Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512

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200	190/195	10 max.	Bro.-Blk.	Nil	Nil
500	190/195	10 max.	2 to 2½	Nil	Nil
700	190/195	5 max.	2 to 2½	Nil	Nil
1035	195/200	2 max.	2 to 2½	Nil	Nil
★ 23	180/185	6 max.	6 max.	20-25	55-65
★ 36	180/185	8 max.	8 max.	30-35	85-95

★ EMULSIFIABLE WAXES

PETROLITE Crown WAX

PETROLITE CORPORATION, LTD., WAX DIVISION
30 BROAD ST., NEW YORK 4
REFINERY: BOX 390, KILGORE, TEXAS

WAX JAPAN (cont'd)

Enco Chem Corp, N Y
†Mitchell Rand Mfg Co, N Y
Norco Prods Co, Phila, Pa
†Siber, Hegner & Co, Inc, N Y
Smith Crude Drug & Spice Corp, N Y
Strohmeyer & Arpe Co, N Y
Stumpf, Alfred F, Co, N Y

WAX LANOLIN

Fanning, Frank G. Co, 50 E 42 St, N Y — Murray Hill 7-7756
†Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184

MICROWAX

White—Yellow—Amber—Dark
"MULTIWAX" Brand
ASTM M.P. from 140° to 165° F.
PENETRATION from 25 to 80
For Paper Laminating—Impregnating—Coating
Insulation—Food Packaging—Cosmetics

PETROLEUM SPECIALTIES, INC.
205 E. 42nd Street, New York 17, N. Y. — ORegon 9-2310 — Cables: PETROLUBE

WAX, MICROCRYSTALLINE

†Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
†Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Barnsdall Oil Co, P O Box 2009, Tulsa, Okla — Tulsa 3-5174

CAR LOADS — TON LOTS
MICROCRYSTALLINE WAX
EMULSIFIABLE • ALL MAKES • HIGH MELTING

SPECIALIZED
CONFIDENTIAL BROKERAGE SERVICE
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DURA CHEMICAL COMPANY
20 VESEY STREET, NEW YORK 7, N. Y. • CO 7-1894-6 • CABLES "DURACHEMIC"

Bofer Petroleum Co, 121 So Broad St, Phila, Pa — Kingsley 5-1323
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Concord Chem Co, Moorestown, N J — Moorestown 9-1100
Cornelius Prods Co, 386 4 Av, N Y — Murray Hill 6-6791
Distributing & Trading Co, Inc, 444 Madison Av, N Y — Eldorado 5-0776
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
General Wax Refg Co, 386 4 Av, N Y — Murray Hill 6-6791
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199

WAXES and COMPOUNDS

ALL TYPES FOR EVERY INDUSTRIAL PURPOSE

Micro-Crystalline
Amorphous
Fungustatic
Compounded
Cerecine
Synthetic

ZOPHAR MILLS, Inc.
Founded 1846
112-26th Street, Brooklyn 32, N. Y.

WAX, MICROCRYSTALLINE (cont'd)

†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Petroleum Specialties, Inc, 205 E 42 St, N Y	Oregon 9-2310
†Petrolite Corp, Ltd, Wax Div, 30 Broad St, N Y	Bowling Green 9-9088
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
†Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
†Tilbury Refg Corp, 21-29 Dunham Pl, Bklyn, N Y	Evergreen 8-6455
Wax Corp of Amer, 38-40 S 6 St, Bklyn, N Y	Evergreen 8-6455
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383
†Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

†Allied Wax & Oil Prods Corp, N Y
Berlow & Schlosser Co, Providence, R I
Browning, E S, Co, San Fran, Calif
Bunge, Alfred, Co, N Y
Drummond, S P, Inc, N Y
Kuhne-Libby Co, N Y
†Mitchell Rand Mfg Co, N Y
National Wax Co, Chicago, Ill
Oil States Petroleum Co, Inc, N Y
Smith & Nichols, N Y
Stumpf, Alfred F, Co, N Y
Tobey Chem Co, N Y
†Warwick Chem Co, Long Is City, N Y

WAX MONTAN (Lignite Wax)

Amorp, dark brown to white (bleached) lumps. Derived from lignite coal. M.P. 80-90°C. Sol. carbon tetrachloride, benzol, chloroform. Uses—mfr. polishing preparations, paints, varnishes, tarry roofing compositions, waterproofing paints, shoe creams and polishes, phonograph record, insulating compositions, candles, soaps, adhesive pastes; substitute for Carnauba and bees wax; finishing leather goods; increasing hardness of fat compositions; paper sizing. Grades —crude; bleached.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Grace, W R, & Co, 7 Hanover Sq, N Y	Whitehall 4-1200
Howe & French, 99 Broad St, Boston, Mass	Hancock 3910
†Huber, J M, Corp, 342 Madison Av, N Y	Murray Hill 7-6900
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

†Amer Lignite Prods Co, Ione, Calif
Inco Trading Co, N Y
Smith & Nichols, N Y
Stroumeyer & Arpe Co, N Y

SPOT AFLOAT
MONTAN WAX
BLEACHED CRUDE, ALL GRADES
SPECIALIZED
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WAX MONTAN SUBSTITUTE

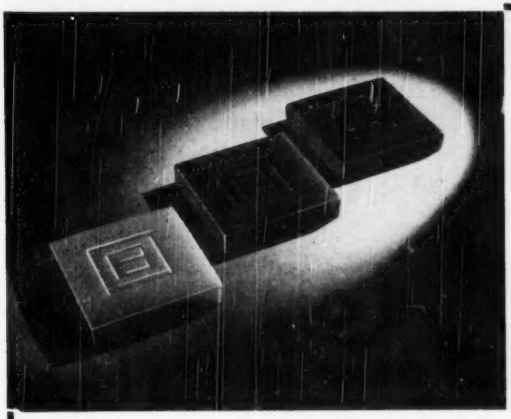
†Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
†Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
†Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

Drummond, S P, Inc, N Y
†Mitchell Rand Mfg Co, N Y
Stumpf, Alfred F, Co, N Y

WAX OURICURY

A palm wax obtained from palm leaf in Brazil. M.p. 183—185°F. Use—substitute for carnauba wax except in emulsions and when used for polishing.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
Allison, Wm M, & Co, 162 Water St, N Y	Whitehall 3-7421
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Grace, W R, & Co, 7 Hanover Sq, N Y	Whitehall 4-1200
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803



BARECO
MICROCRYSTALLINE
WAXES

Backed by years of research, Bareco Waxes are manufactured from crudes specifically selected for wax-making, and are offered for your particular use in solving packaging and processing problems. Here are just a few of the proven uses of these high quality waxes . . . .

- Food Packaging
- Batteries
- Tobacco Packaging
- Protective Coatings
- Coils and Condensers
- Rust Preventives
- Leather Treatment and Dressings
- Cosmetics, Salves and Ointments
- Grease and Lubricant Manufacture
- Fabric Treating and Waterproofing
- Telephone and Telegraph Equipment
- Wire and Cable Insulation

Samples available in BLACK, WHITE & AMBER

PROPERTIES

The foregoing uses, and many others, reflect these exceptional properties in Bareco Waxes... HIGH MELTING POINTS (170/175°F.—190/195°F.), HIGH WATER VAPOR RESISTANCE, ODORLESS and TASTELESS, EXCELLENT ELECTRICAL and ADHESIVE CHARACTERISTICS, CHEMICALLY INERT, and EXCELLENT HEAT SEALING CHARACTERISTICS.

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121 S. Broad St.
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REFINED OURICURI WAX CRUDE, ALL GRADES
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NEW YORK 7, N. Y. • CABLES "DURACHEMIC"

WAX OURICURY (cont'd)

International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
†Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Stein, Hall & Co, Inc, 285 Madison Av, N Y	Murray Hill 9-0800
Noreo Prods Co, Phila, Pa	Strohmeyer & Arpe Co, N Y
Smith & Nichols, N Y	Wessel-Dural Co, N Y

QUALITY D.T. DeeTee BRAND
WAXES
SAMPLES FURNISHED ON REQUEST
Domestic Waxes
OZOKERITE
MICROCRYSTALLINE
WAX COMPOUNDS
All Ranges
Imported Waxes
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CANDELILLA
CARNAUBA
Crude and Refined
DISTRIBUTING & TRADING CO., INC.
444 MADISON AVENUE, NEW YORK, 22 ELdorado 5-0776

WAX OZOKERITE (Mineral Wax, Fossil Wax, Native Paraffin Ozocerite)

Yellowish brown to black or green, amorp. masses. Mixture of hydrocarbons. Sp. gr. 0.85-0.96. M.P. 55-110°C. Sol. benzine, benzene, turpentine, kerosene, ether, carbon disulfide. Uses—mfr. paints, varnishes, wood fillers, wood polishes, candles, lithographic and printing inks, dolls, toys, carbon paper, shoe polishes, incandescent gas mantles, pomades, cosmetics, pharmaceutical ointments, matrices in galvanoplastic work, crayons, waxed paper and cloth, linen and cotton sizing preparations, electrical insulating, leather finishing, lubricant and lubricating, and sealing wax compositions; in process engraving and lithography; substitute for beeswax, carnauba, ceresin, electrotyper's wax; as rubber filler. Grades—hard brown, green; refined, yellow.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Boler Petroleum Co, 121 So Broad St, Phila, Pa	Kingsley 5-1325
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723

OZOKERITE
CERESIN WAX
Micro-Crystalline Waxes
TILBURY REFINING CORPORATION
21 Dunham Place, Brooklyn 11, New York

WAX OZOKERITE (cont'd)

Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y	Beekman 3-3162
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
†Tilbury Refg Corp, 21-29 Dunham Pl, Bklyn, N Y	Evergreen 8-6455
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8585
†Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907
†Allied Wax & Oil Prods Corp, N Y	†Ozokerite Mining Co,
Kuhne-Libby Co, N Y	Grand Rapids, Mich
†Mitchell Rand Mfg Co, N Y	Strohmeyer & Arpe Co, N Y

WAX PALM

Yellowish amorp. mass. Sp. gr. 0.992-0.995. M.P. 102-105°C. Sol. ether, hot alcohol, alkalies. Uses—mfr. candles, electrical insulating compositions, shoe, leather and furniture polishes, phonograph records, paints, varnishes, lacquers; substitute for beeswax.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y	Rector 2-2955
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
†Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
†Smith & Nichols, N Y	

BOLER
WAXES
Paraffin Waxes
Parafflex Waxes
Microcrystalline Waxes
Laminating Waxes
Hot Melt Coatings
Wax Resin Concentrates
Wax Compounds
Vegetable Waxes
Synthetic Waxes
Petrolatums
BOLER PETROLEUM CO.
Petroleum and Its Products
121 S. Broad Street, Philadelphia 7, Pa.
Cable Address: "CABOL" Phila.

WAX, PARAFFIN

Waxy, white translucent, tasteless, odorless solid. Consists of mixture of solid hydrocarbons chiefly of methane series from petroleum. Sp. gr. 0.880 to 0.915. M.p. 42° to 60°C. Sol. benzine, benzene, chloroform, turpentine, olive oil, warm alcohol, and carbon disulfide. Insol. in acids. Uses: mfg. phonograph records; floor polishes; extraction of perfumes from flowers; cosmetics; photography; anti-frothing agent in sugar refining; packing tobacco products; coating interior of wine casks; protecting rubber products from sunecracking; mfg. paraffin candles, waxed paper, etc.; waterproofing wood, cork, etc; impregnating matches; stearin candles; lubricants; preserving eggs; oil crayons; pharmacy (to stiffen ointments); surgery; stoppers for acid bottles; preservative covers for food products; electrical insulation; laundering; preservative for railroad ties. Grades: yellow crude, scale, white scale, refined wax, U.S.P.

FULLY REFINED
HIGH MELTING POINT
PARAFFIN WAX
143-150° F 149-151° F 160-165° F A.M.P.
PETROLEUM SPECIALTIES, INC.
205 E. 42nd Street, New York 17, N. Y.
ORegon 9-2310
Cables: PETROLUBE

WAX, PARAFFIN (cont'd)

†Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstaline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Amer Refand Corp, 16 Hudson St, N Y — Digby 9-0170
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
†Boler Petroleum Co, 121 So Broad St, Phila, Pa — Kingsley 5-1323

PARAFFIN WAX
ALL GRADES and other
Chemicals, Solvents and Coal Tar Products
Republic Chemical Corp.
94 Beekman Street, New York 7
Cable Address: Jaynivrad

Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Distributing & Trading Co, Inc, 444 Madison Av, N Y — Eldorado 5-0776
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
General Wax Refg Co, 386 4 Av, N Y — Murray Hill 6-6791
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O — Stadium 0481
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
†Imis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y — South 8-1717
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412

PARAFFIN WAX
and Paraffin Substitutes
INDRAWAX
Extra Hard Paraffin for Fine Candles, Matches, Paper. No Additives Needed.
Industrial Raw Materials Corp.
52 Wall St., New York 5, N. Y. Digby 4-1500
Cable Address, INDRAW Plant, LYNDHURST, N.J.
REFINERS, AND DISTRIBUTORS OF WAXES AND OILS

WAX, PARAFFIN (cont'd)

Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 99 Beekman St, N Y — Beekman 3-3162
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-3536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

PARAFFIN WAX
Microcrystalline
Wax
WAX CORPORATION OF AMERICA
38-40 South 6th Street, Brooklyn 11, N. Y.

Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4312
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
†Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Wax Corp of Amer, 38-40 S 6 St, Bklyn, N Y — Evergreen 8-6455
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
†Will & Baumer Candle Co, Inc, Park St, Syracuse, N Y — Syracuse 2-0411
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383

†Allied Wax & Oil Prods Corp, N Y
Chatham Petroleum Co, Inc, N Y
Drummond, S P, Inc, N Y
Frey & Co, N Y
Inco Trading Co, N Y
Kuhne-Libby Co, N Y
McNerney Chem Corp, Los Angeles, Calif
National Wax Co, Chicago, Ill
Oil States Petroleum Co, Inc, N Y
Smith & Nichols, N Y
Tobey Chem Co, N Y
Western Chems, Inc, Portland, Ore

WAX PETROLEUM

Obtained as by-product from the distillation of paraffin base petroleum. Outstanding characteristic is the resistance to the passage of moisture vapor. Used in candle-making, as impregnating and coating material for paper and cardboard. Low fire hazard, stability and high glosses which are obtainable with their use are certain other important characteristics. Various grades include scale wax, semi-refined wax, fully refined wax, the plastic or amorphous waxes, such as ceresine, ozokerite, etc., which while not made from petroleum in the usual sense, nevertheless are hydrocarbon waxes of mineral origin and hence can be placed in the same category as the petroleum waxes. The petrolatums are also amorphous waxes and should be included in this general grouping.

†Allied Asphalt & Mineral Corp, 217 Bway, N Y — Rector 2-2955
Amer Firstaline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
†Boler Petroleum Co, 121 So Broad St, Phila, Pa — Kingsley 5-1323
Distributing & Trading Co, Inc, 444 Madison Av, N Y — Eldorado 5-0776
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
General Wax Refg Co, 386 4 Av, N Y — Murray Hill 6-6791
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
†International Wax Refg Corp, 4415 3 Av, Bklyn, N Y — South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310
†Petrolite Corp, Ltd, Wax Div, 30 Broad St, N Y — Bowling Green 9-9088
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
†Tilbury Refg Corp, 21-29 Dunham Pl, Bklyn, N Y — Evergreen 8-6455
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383
†Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

†Allied Wax & Oil Prods Corp, N Y
Drummond, S P, Inc, N Y
Kuhne-Libby Co, N Y
†Mitchell Rand Mfg Co, N Y
National Wax Co, Chicago, Ill
Oil States Petroleum Co, Inc, N Y
Smith & Nichols, N Y
Tobey Chem Co, N Y
†Union Oil Co of Calif, Los Angeles, Calif

WAX, SHELLAC

Amer Firstaline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9331
Diehl, Wm, & Co, 330 W 42 St, N Y — Bryant 9-5211
Dura Chem Co, 20 Vesey St, N Y — Cortlandt 7-1895
General Wax Refg Co, 386 4 Av, N Y — Murray Hill 6-6791
†Huber, J M, Corp, 342 Madison Av, N Y — Murray Hill 7-6900
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y — South 8-1717
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y — Main 4-6673

Howell, Edwin R, Detroit, Mich
Tench, H G, Co, Inc, Pittsburgh, Pa
Wiswell & Co, Belmont, Mass

WAX SPERMACETI (Cetaceum)

From sperm whale, mostly cetyl palmitate. Pearly-white, solid amorp. Sp. gr. 0.945. M.P. 45°C. Sol. ether, chloroform, carbon disulfide, and hot alcohol. Uses—mfr. chemical emulsions, cerates,

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Serving the world's largest producers and consumers of INDUSTRIAL & FINE CHEMICALS with a service that has won their CONFIDENCE
ROSENTHAL-BERCOW CO. INC.
DRUGS CHEMICALS OILS WAXES
25 East 26th Street New York 10, N. Y.
Cable Address: "RODRUG" All Codes

WAX SPERMACETI (cont'd)

candles, soaps, sweetmeats, cosmetics, candies, confectionery, ointments, pomades, toilet preparation; finishing linens; in medicine. Grades—blocks; cakes; tech.; U.S.P.

Allisen, Wm M, & Co, 162 Water St, N Y	Whitehall 3-7421
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y	Rector 2-0262
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y	Beekman 3-3162

MUTCHLER CHEMICAL CO., Inc.
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259 Broadway, New York 7, N. Y. Digby 9-4735

Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y	Murray Hill 3-7500
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
†Smith, Werner G, Co, 2191 W 110 St, Cleveland, O	Woodbine 1-4690
Uhe, George, Co, Inc, 75 S Av, N Y	Watkins 9-0870
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
†Will & Baumer Candle Co, Inc, Park St, Syracuse, N Y	Syracuse 2-0411

Smith & Nichols, N Y — Strohmeyer & Arpe Co, N Y

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WAXES, I. G.

Dark brown to light yellow. Derived from Lignite coal. Sp. gr. 0.99-1.04 (20°C). M. P. 79-106°C. Saponification No. 98-178 Acid No. 10-167. Unsap. matter 5-22%. Sol. carbon tetrachloride, turpentine, ethyl acetate, benzene. Uses: Mfr. floor wax, furniture polish, shoe polish, leather dressings, auto polish, carbon paper, crayons, paper sizes, varnish textile sizes & finishes, cosmetics, candles, lubricating ampds.

Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673

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WAXES INSECT

Natural refined waxes prepared from the secretion of various insects; most important of the group are: Beeswax, lac wax, Chinese insect wax, ant wax, spermaceti. The latter is obtained from the head of the sperm whale and has particularly good waterproofing properties. See specific waxes.

Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673

WAXES MINERAL

Waxes largely derived from: 1. The distillation of petroleum oils; 2. Through solvent extraction of lignite shales; and 3. From mines. Most important members of the group are montan, paraffin, ozokerite, ceresine.

INDRALATUM
VELATRUM
PARALATRUM
Three Special Grades for Candles, Matches, Paper, etc.
Industrial Raw Materials Corp.
52 Wall St., New York 5, N. Y. Digby 4-1500
Cable Address, INDRAW Plant, LYNDHURST, N.J.
REFINERS, AND DISTRIBUTORS OF WAXES AND OILS

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Boler Petroleum Co, 121 So Broad St, Phila, Pa	Kingsley 5-1323
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
Page, Chas, & Co, Inc, 50 E 42 St, N Y	Vanderbilt 6-0903
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y	Beekman 3-3162
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
†Tilbury Refg Corp, 21-29 Dunham Pl, Bklyn, N Y	Evergreen 8-6455
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383
†Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

†Allied Wax & Oil Prods Corp, N Y	Smith & Nichols, N Y
Drummond, S P, Inc, N Y	Strohmeyer & Arpe Co, N Y
Oil States Petroleum Co, Inc, N Y	Stumpf, Alfred F, Co, N Y
†Ozokerite Mining Co, Grand Rapids, Mich	Tobey Chem Co, N Y

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NATURAL and SYNTHETIC
Specially designed for use by various industries

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Ouricury
Beeswax
Candelilla
Montan

Emulsawax
Cerax
Solvawax
Ceroflex
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14 East Jackson Blvd
Chicago 4 Ill

114 South Central Ave
Los Angeles Calif

Write Department BG for technical booklet

Special wax compounds made to your specifications

WAXES NATURAL

Waxes of natural origin as distinguished from those of synthetic origin. Natural waxes may be divided into 3 groups according to their origin:—Vegetable Waxes; Mineral Waxes; Insect Waxes. **See Waxes, Insect; Waxes, Mineral; Waxes, Vegetable, etc.**

Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
†Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383

†Allied Wax & Oil Prods Corp, N Y
Smith & Nichols, N Y
Strohmeyer & Arpe Co, N Y
Tabler, Wm B, Co, Louisville, Ky

QUALITY D.T. BRAND DeeTee

WAXES

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CANDELILLA
CARNAUBA
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DISTRIBUTING & TRADING CO., INC.
444 MADISON AVENUE, NEW YORK 22 ELdorado 5-0776

WAXES VEGETABLE

General term denoting natural waxes of vegetable origin: **See Wax Carnauba; Wax Candelilla; Wax Japan; Wax Bayberry.** Other waxes in this group include—Fibre Wax, Cotton Wax, Flax Wax, Sugar Cane Wax, Tea Wax, Rose Wax, etc. Vegetable waxes are very complex chemically and therefore difficult to define their properties. In the group are usually the hardest waxes. Carnauba is extremely hard, insoluble in water, but can be obtained in an aqueous state by boiling with alkalies and emulsifying agents. Widely used in polishes of many various types. Candelilla is very hard but somewhat brittle. Japan more closely resembles the animal tallows in composition and finds wide usage in laundry finishing, leather dressing, etc. Bayberry closely resembles Japan in its composition.

Boler Petroleum Co, 121 So Broad St, Phila, Pa	Kingsley 5-1323
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Dalton-Cooper Inc, 200 W 34 St, N Y	Longacre 4-2910
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y	Hanover 2-3750
Dura Chem Co, 20 Vesey St, N Y	Cortlandt 7-1895
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Grace, W R, & Co, 7 Hanover Sq, N Y	Whitehall 4-1200
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Lincks, Geo H, Inc, 312 Bridge St, Bklyn, N Y	Main 4-6673
McAdam, T F, Inc, 125 Broad St, N Y	Digby 8-3525
†Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383

†Barnett Labs, Long Beach, Calif
Browning, E S, Co, San Fran, Calif
Knapp, Harry G, St Louis, Mo
Norco Prods Co, Phila, Pa
Smith & Nichols, N Y
Strohmeyer & Arpe Co, N Y
Stumpf, Alfred F, Co, N Y
Winther, S A, & Co, Inc, San Fran, Calif

WHITING (Paris White, Gilder's Whiting)—see also Calcium Carbonate

Form of $CaCO_3$. Natural, white, amorp. powd. Sp. gr. 2.71. Sol. acids. Uses—mfr. glass, soaps, detergents, aerated water, metal polishes, porcelains; as paint pigment and filler; pigment in oil-cloth and linoleum; filler oil, and water paints, putty, whitewash, paper, wallpaper, rubber, oil-cloth and linoleum; rubber pigment. Grades—as to origin, French, English, etc.; Paris White; crude; gilder's, etc.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Binney & Smith Co, 41 E 42 St, N Y	Murray Hill 2-1960
Chem Mfg Co, Inc, 21 West St, N Y	Bowling Green 9-5360
Chrystal, Charles B, Co, Inc, 53 Park Pl, N Y	Barclay 7-2151
†Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Hammill & Gillespie, Inc, 225 Bway, N Y	Barclay 7-5067
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 87189
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Richards, H N, Co, 1475 Prospect St, Trenton, N J	3-4186
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
†Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y	Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

Carroll, R E, Inc, Trenton, N J
†Columbia Quarry Co, St Louis, Mo
Dereume, Raymond, Punxsutawney, Pa
Egleston, Wm D, Co, Cambridge, Mass
Howell, Edwin R, Detroit, Mich
†Industrial Minerals & Chem Co, Berkeley, Calif
Jensen & McClelland, Chicago, Ill
Landen Putty Wks, Malden, Mass
Landers-Segal Color Co, Bklyn, N Y
†National Gypsum Co, Buffalo, N Y
Osgood, D H, Co, Detroit, Mich
Porter Warner Industries, Inc, Chattanooga, Tenn
†U S Lime Prods Corp, San Fran, Calif
Winther, S A, & Co, Inc, San Fran, Calif

WITHERITE

Natural barium carbonate. Color, white, yellowish or grayish. Sp. gr. 4.28-4.35. Hardness 3.00-3.75. Uses—manufacture of barium chemicals, glass.

†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214

WOOD FLOUR (Wood Meal)

Solid amorp. Made mostly from spruce, white pine and poplar. Uses—mfr. dynamites and other explosive compositions, composition, floorings; filler for oil-cloth, linoleum, paper, paperboard, artificial plastics, and for many other purposes. Grades—as to fineness and color.

†Composition Materials Co, Inc, 28 W 44 St, N Y	Bryant 9-3277
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Malmstrom, N I, & Co, 147 Lombardy St, Bklyn, N Y	Evergreen 8-7626
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa	Market 7-2670

†Wood Flour, Inc, Winchester, N H

WOOD FLOUR

Industrial Grades
From 40 to 100 Mesh
Soft or Hard Wood

Manufactured by
COMPOSITION MATERIALS CO., Inc.
28 West 44th Street — New York 18, N. Y.

WOOD TAR

†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

WOOL GREASE (Degras)

Dark-brown unctuous fat; disagreeable odor. Obtained by washing sheep's wool. Sol. alcohol, ether and benzene. Uses:—leather stuffing; mfg. of lanolin; special soaps; varnishes; belt-dressing compd.; printing inks. Grade—technical.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Amer Roland Corp, 16 Hudson St, N Y	Digby 9-0170
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970

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The chemical process industries are basic, still-growing and *stable*. They buy:

Raw Materials	$7,242,000,000
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In the process industries, 1,843 plants produce more than $1 million worth of materials annually; 2,978 plants fall into the $500,000 category.

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Textile Processing	61 %
Pulp and Paper	34
Paints, Varnish, Colors	74
Animal and Vegetable Oils	37
Drugs, Medicines, Toilet Preparations, Insecticides	81
Soap and Glycerine	96
Rayon and Allied Products	97
Hardwood Distillation, Naval Stores	45
Fertilizers	31
Industrial Chemicals	96
Miscellaneous Chemical Products	97
Petroleum Refining	81
Rubber Processing	98
Leather Tanning	23
Cement, Lime, Refractories	26
Non-Ferrous Metallurgy	93

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CI's highly selective (ABC) circulation is aimed not at the mass but at the market. A certified survey has established that each copy of CI has an average of 2.77 readers (active audience: 29,400) and that 73.2% of these readers buy, specify or recommend the purchase of chemicals, equipment, containers, raw materials.

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CI is edited for the active, responsible leaders of the chemical industries. It is designed, specifically, to provide these men—the industries' planners and doers—with the essential information they must have in concise, readable, understandable form.

Editorially, CI is not concerned with the abstruse and the highly theoretical; it does stress what new technical developments mean *economically*, their overall significance and import, how they will affect markets, processing techniques, packaging procedures, etc. CI is practical, useful, usable.

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325 Spring St., New York 13, N.Y.
Plant and warehouse: Hicksville, L. I.

WOOL GREASE (cont'd)

DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Malmstrom, N I, & Co, 147 Lombardy St, Bklyn, N Y — Evergreen 8-7626
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
†Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Zieglar, G S & Co, 233 Bway, N Y — Worth 4-8583

†Amer Lanoline Corp, Lawrence, Mass
†Blum, Paul, Co, Buffalo, N Y
Osborne, E Dewitt; N Y
Knapp, Harry G, St Louis, Mo
†Lancaster Prods, Inc, Elizabeth, N J
Palmer Supplies Co, Cleveland, O
†Shields, Thomas J, Co, N Y
Trask, Arthur C, Co, Chicago, Ill
†Whitman, William, Co, Inc, N Y

XANTHINE (2:6-Dioxypurine)

$C_5H_4N_4O_2$. M.W. 152.11. Light yellow. Very slightly sol. water; insol. alcohol, ether; very sol. alkalies, ammonia, strong hot HCl. Uses: pharmacology, medicinal, nutrition, plant physiology.

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y — Judson 2-1230
Maxim Chem Co, Inc, 44 Cliff St, N Y — Worth 4-0070
†Mearl Corp, 153 Waverly Pl, N Y — Chelsea 2-3680

XANTHONE (Benzophenone Oxide)

$CO:(C_6H_4)_2O$. M.W. 196.19. White Crystalline solid. M.P. 174°C.; sublimes readily at its melting point. B.P. 355°C. Insoluble in water, slightly soluble in cold ethyl alcohol and acetone, very sparingly soluble in other common organic solvents in the cold; quite readily soluble in hot ethers and ether esters. It is a highly effective larvacide, particularly in the control of codling moth and fruit moth larvae. Other uses are as an intermediate in organic synthetics in dyestuffs, perfumes, pharmaceuticals, etc.

†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005

o-XYLENE

$(CH_3)_2C_6H_4$. M.W. 116. Purity: 70%, 80% and higher. Colorless liquid, water-insoluble but soluble in most organic solvents. Used for vitamin and pharmaceutical syntheses.

†Indoil Chem Co, 910 S Michigan Av, Chicago, Ill — Harrison 7-9200
†Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Paragon Div, Matheson Co, Inc, E Rutherford, N J — Rutherford 2-9500
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600

Commerce Petroleum Co, Chicago, Ill

XYLENOLS (Dimethylphenols)

$C_8H_{10}O$. M.W. 122.1. Coal-tar acids; low-boiling, high-boiling. Colorless, crystalline powders. Sol. water, alcohol, varying extents.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
†Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
†Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y — Bowling Green 9-7600

m-XYLIDINE

$C_8H_{11}N$. Crystalline powd. Slightly sol. water; sol. alcohol, ether. Uses—mfr. monoazo dyes, ether intermediates.

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939

XYLIDINES MIXED (Aminodimethylbenzene, Aminoxylene, Methyltoluidines, Diethylanilines)

$C_6H_3(CH_3)_2NH_2$. Various mixtures of ortho, meta, and para. Sp. gr. 0.981, 0.984, 0.9184, 0.980. B.P. 215°C. Sol. alcohol, ether, benzene. Uses—mfr. dyestuffs, intermediates, organic chemicals, paratoluenesulfondiamine, azo colors, developed colors, pharmaceutical chemicals. Grades—tech.; various mixtures of ortho, meta, and para.

†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939

XYLOL (Xylene, Dimethylbenzene)

$C_6H_4(CH_3)_2$. M.W. 106.08. Ortho, meta, para. Colorless, mobile liq., characteristic odor. Sp. gr. o. 0.876; m. 0.8648; p. 0.8621. M.P. o. —27.1°C.; m. —48.6°C.; p. 15°C. B.P. o. 144°C.; m. 139°C.; p. 138°C. Sol. alcohol, ether. Uses—mfr. dyestuffs, intermediates, organic chemicals, artificial musk, trinitroxylene; removal of naphthalene from illuminating gas; solvent in making rubber cements, lacquers, and varnishes; in microscopy. Grades—nitration (5° distillation range); commercial.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Chesgate Inc, 40 Exchange Pl, N Y — Hanover 2-0364
†Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Le 7-4650
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind — Franklin 3464

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†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Nitrogen Prods Inc, 450 7 Av, N Y — Bryant 9-1045
Nitrogen Prods, Inc, Benzol Div, 926 Harrison Av, Kearny, N J — Bergen 4-5478
†Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Pan Amer Refg Corp, 122 E 42 St, N Y — Lexington 2-4322
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
†Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Reinhart Chem Corp, 405 Lexington Av, N Y — Murray Hill 6-8536
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Stoney-Mueller Inc, Page & Newark Ave, Lyndhurst, N J — Rutherford 2-7420
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
†Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8533
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
†U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y — Bowling Green 9-7600
†Velsicol Corp, 330 E Grand Av, Chicago, Ill — Delaware 7-7383

Chem By-Prods Co, Chicago, Ill
Coal Chems, Inc, Chicago, Ill
†Colorado Fuel & Iron Corp, Denver, Colo
Crowley Tar Prods Co, Inc, N Y
Farinella, Frank C, N Y
†Inland Steel Co, Chicago, Ill
†Interlake Iron Corp, Cleveland, O
†Milwaukee Solvay Coke Co, Milwaukee, Wisc
Phillips & Martin Co, Chicago, Ill
Senn, George, Inc, Phila, Pa
Van Waters & Rogers, Inc, Portland, Ore

YARA YARA (Beta-Naphthyl Methyl Ether)

$C_{10}H_7.O.CH_3$. M.W. 158.1. White crystals with an orange-blossom odor. Uses—as a perfume fixative in perfumery.

†Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
†Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
†Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Luedors, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
†Polak & Schwarz Inc, 667 Washington St, N Y — Watkins 4-5570
†Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

YOHIMBINE HYDROCHLORIDE

Bauer, Phillip, Co, Inc, 2 W 47 St, N Y	Judson 2-1230
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
Fallek Products Co Inc, 163 Bway, N Y	Barclay 7-7939
†Gane & Ingram, Inc, 43 W 16 St, N Y	Watkins 4-9404
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y	Algonquin 5-2900
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
Uhe, George, Co, Inc, 75 8 Av, N Y	Watkins 9-0870

ZEIN

†Corn Prods Refg Co, 17 Battery Pl, N Y	Whitehall 4-0880

Burtonite Co, Nutley, N J

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ZINC—see also Zinc Dust

White, gray or bluish-gray powd. or metal. At.W. 65.38. Sp. gr. 7.142. M.P. 419°C. B.P. 907°C. Sol. alkalies, and acids. Uses—mfr. zinc salts, zinc oxide, intermediates, organic chemicals, dyestuffs, pharmaceuticals, electrical apparatus, alloys with copper, tin, etc.; in roofing, various cast, molded, and pressed articles; sherardising process. Grades—as to purity; slabs; mossy; granulated.

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Hawkins Chem Co, 3100 E Hennepin Av, Minneapolis, Minn	Bridgeport 8789
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980

†Amer Zinc Sales Co, Columbus, O
†Eagle Picher Co, Cincinnati, O
†Federated Metals Div, N Y
†Kirk, Morris P, & Son, Inc, Los Angeles, Calif
†New Jersey Zinc Sales Co, N Y
Northwest Lead Co, Seattle, Wash
†U S Smelting Refg & Mining Co, N Y

ZINC ACETATE

$Zn(C_2H_3O_2)_2 + 2H_2O$. White, crystalline plates. Sp. gr. 1.72. M.P. 235-257°C. Sol. water, alcohol. Uses—mfr. zinc salts, zinc chromate; mordant in dyeing and printing textiles; preservation wood; resist in dyeing textiles; laboratory reagent; in medicine. Grades—tech.; U.S.P.; C.P.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y	Niagara Falls 2-2307
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811

ZINC AMMONIUM CHLORIDE

$ZnCl_2.3NH_4Cl$. White, deliq. cryst. Sp. gr. 1.72-1.77 (10°C.) Uses—mfr. soldering fluid, electric batteries; flux in soldering metals, welding metals; galvanizing baths. Grades—tech.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-4900
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif	Trinity 6894
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651

Industrial Sales Corp, N Y
†Jordan Co, Chicago, Ill
†Kirk, Morris P, & Son, Inc, Los Angeles, Calif
†Naphthalene Prods Co, Tarrant, Ala

ZINC BROMIDE

$ZnBr_2$. M.W. 225.2 White, deliquescent, granular powder. Very sol. in water and alcohol. Uses—mfr. and finishing of rayon. Grade—better than 97.0% $ZnBr_2$.

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Consolidated Midland Corp, Katonah, N Y	Katonah 1010
La Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
†Michigan Chem Corp, St Louis, Michigan	41

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ZINC CARBONATE (Zinc Subcarbonate, Tutia)

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
†Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa	Rittenhouse 6-3874
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y	Murray Hill 3-3202
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Kingston Chem Co, Inc, 15 William St, N Y	Whitehall 4-0007
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760

†Amer Zinc Sales Co, Columbus, O

ZINC CHLORIDE (Butter of Zinc)

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
†Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Faesy & Besthoff Inc, 325 Spring St, N Y	Worth 4-8585
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
†Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y	Evergreen 8-7430
Smith, Geo F, Inc, 60 E 42 St, N Y	Murray Hill 7-5651

†Amer Smelting & Refg Co, N Y
Industrial Sales Corp, N Y
†Jordan Co, Chicago, Ill

ZINC CHROMATE (Zinc Yellow, Zinc Chrome, Citron Yellow Buttercup Yellow)

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
File Color & Chem Corp, 202-206 E 44 St, N Y	Murray Hill 2-4884
†Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O	Elmhurst 1300
†Huber, J M, Corp, 342 Madison Av, N Y	Murray Hill 7-6900
†Kentucky Color & Chem Co, Inc, 600 N 34 St, Louisville, Ky	Shawnee 1206
†Mineral Pigments Corp, Muirkirk, Md	Laurel 454
†Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich	Jordan 4-6500
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567

Eakins, J S & W R, Inc, Bklyn, N Y
†Pigment Color Div, Imperial Paper & Color Corp, Glens Falls, N Y
†Western Dry Color Co, Chicago, Ill

ZINC CYANIDE

†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Hummel Chem Co, Inc, 90 West St, N Y	Rector 2-5687
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Lynn, Wm, Chem Co, Inc, 121-129 N Davidson St, Indianapolis, Ind	Franklin 3464
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712

ZINC CYANIDE (cont'd)

National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531

ZINC DIBUTYL DITHIOCARBAMATE

$Zn[SC(S)N(C_4H_9)_2]_2$. M.W. 474.12. Color, white. M.R. 104-108° C. Uses: primary accelerator; in latex compounding.

†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

ZINC DIETHYL DITHIOCARBAMATE

$Zn[SC(S)N(C_2H_5)_2]_2$. M.W. 361.90. Color, white. M.R. 172-176° C. Uses: vulcanising agent; primary or secondary accelerator.

†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

ZINC DIMETHYL DITHIOCARBAMATE

$Zn[SC(S)N(CH_3)_2]_2$. M.W. 305.79. Color, white. M.R. 248-250° C. Uses: primary or secondary accelerator.

†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
†Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Corona Chem Div, Milwaukee, Wisc

ZINC DUST—see also Zinc Metal

Zn. Solid, white crystalline. Sp. gr. 7.142. M.P. 419°C. B.P. 907°C. Sol. acids, alkalies. Uses—mfr. lithopone; reducing agent in making intermediates, organic chemicals, dyestuffs, aniline, nitrobenzene, and in dyeing and printing textiles; galvanizing metals; extraction of gold from ores; laboratory reagent; purifying fats and oils. Grades—tech. (93-96% Zn).

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121

ZINC

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†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

†New Jersey Zinc Sales Co, N Y — †Superior Zinc Co, Phila, Pa

ZINC-2-ETHYLHEXOATE

†Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

†Argus Chem Lab, Inc, Bklyn, N Y — †Mooney Chems, Inc, Cleveland, O

ZINC FLUOBORATE

$Zn(BF_4)_2$. M.W. 239.00. 48% solution colorless liquid. Uses: in zinc plating bath; in bonderizing of aluminum; in electroless plating bath.

†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

ZINC FLUORIDE

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214
Superior Prods Co, Somerville, Mass

ZINC FORMATE

$Zn(OOCH)_2 \cdot 2H_2O$. M.W. 191.4. Colorless crystals. Sol. cold water, decomposes in hot water. Uses: catalyst in mfg. of methyl alcohol; addition agent to dye-baths and silk-weighting compositions.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Trojan Powder Co, Allentown, Pa — 45201

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"Virginia" Zinc Hydrosulphite is a powerful reducing and bleaching agent prepared expressly by "Virginia" as a brightening and decolorizing agent for the pulp and paper industry. Paper products can be upgraded by as much as seven points in brightness by using this quality ZnS_2O_4—the *only* high test zinc hydro available commercially. In 250-lb. single-trip steel drums.

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VIRGINIA Chemicals

ZINC HYDROSULFITE

ZnS_2O_4. M.W. 193.4. White, amorphous solid. Sol. in water. Uses—as textile stripper; brightening or bleaching of ground wood pulp. Grade—technical.

Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
†Virginia Smelting Co, W Norfolk, Va — Portsmouth 7-3441

Berkshire Color & Chem Corp, Springfield, Mass — Bunge, Alfred, Co, N Y

ZINC LAURATE

$[CH_3(CH_2)_{10}COO]_2$ Zn. M.W. 440.80. Used in mfr. of drying materials for paints, varnishes, etc.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981

ZINC LINOLEATE

$C_{17}H_{31}COOZn$. Uses—in driers.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

ZINC MOSSY

Form of zinc used to strip photographic solutions; mfg. soot cleaners, coloring face brick, making photographic chemicals.

†Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

ZINC NAPHTHENATE

Uses—as a drier for paints, varnishes.

†Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
†Cuprinol Div, Darworth, Inc, Simsbury, Conn — Simsbury 42
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Huber, J M, Corp, 342 Madison Av, N Y — Murray Hill 7-5900
†Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Sconny-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201

†Ferro Chem Corp, Bedford, O — †Mooney Chems, Inc, Cleveland, O
†Industrial Lining Engrs, Inc, Pittsburgh, Pa

ZINC NITRATE

$Zn(NO_3)_2 \cdot 6H_2O$. Colorless cryst. or white pieces. Sp. gr. 2.065 (13°C.). M.P. 36.4°C. B.P. 131°C. Loses water at 105°C. Sol. water, alcohol. Uses—chemical reagent in making intermediates, organic chemicals; in medicine. Grades—tech.; C.P.

†Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Elmer & Amend, Greenwich & Morton Sts, N Y — Canal 6-4600
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

ZINC NITRATE (cont'd)

Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
†Barium & Chems, Inc, Willoughby, O

ZINC OLEATE

$Zn(C_{18}H_{33}O_2)_2$. M.W. 625.89. White, greasy, gran. pwdr. Insol water, sol. alcohol, ether, benzene. Uses—as a varnish drier; in medicinals.

Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

ZINC OXIDE (Nil Alba, Flowers of Zinc, Zinc White, Chinese White)

ZnO. M.W. 81.38. White, or yellowish-white, amorp. powd. Sp. gr. 5.47. Sol. acids. Uses—mfr. zinc salts, paints, varnishes, enamels, lead-zinc and other zinc pigments, ceramic enamels and glazes, cements, candles, white glue, gelatin, glass, matches, printing inks, cosmetics, toilet articles, dental cements, ointments, salves, celluloid, soap; body color in printing; pigment for rubber, linoleum, oilcloth; in medicine. Grades—U.S.P.; C.P.; French process; American process; leaded (varying percentages of lead sulfate); Green seal; Red seal; White seal, etc.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
†Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
†Carnegie Chem Mfg Co, 354 S Spring St, Los Angeles, Calif — Madison 9-2574
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
De Bear Inc, 636 11 Av, N Y — Plaza 7-0960
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
European Chem Co Inc, 366 Bway, N Y — Beekman 3-6246
Falick Products Co Inc, 165 Bway, N Y — Barclay 7-7939
Gallard Schlesinger Chem Corp, 92 Liberty St, N Y — Rector 2-0262
Griffiths, K F, & Co, Inc, 288 Madison Av, N Y — Murray Hill 3-8350
Gumport, E, Corp, 75 West St, N Y — Whitehall 4-9199
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
†Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Huisking, Chas L, & Co, Inc, 155 Varick St, N Y — Algonquin 5-2900
Hummel Chem Co, Inc, 90 West St, N Y — Rector 2-3687
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007

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ZINC OXIDE (cont'd)

Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mercantile Import & Export Corp, 21 E 40 St, N Y — Lexington 2-2445
Mutchler Chem Co, Inc, 258 Bway, N Y — Digby 9-4735
N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Schmitz-Schoenewaldt-Turner Corp, 20 Vesey St, N Y — Worth 4-0120
Shepard Chem Corp, 117 Liberty St, N Y — Worth 4-3950
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Uhe, George, Co, Inc, 75 8 Av, N Y — Watkins 9-0870
Wharry, S A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Amer Zinc Sales Co, Columbus, O
Associated Lead & Zinc Co, Seattle, Wash
†Eagle Picher Co, Cincinnati, O
Eastern Color & Chem Co, N Y
†Hegeler Zinc Co, Danville, Ill
Jensen & McClelland, Chicago, Ill
Mfrs Chem Co, N Y
Martin Hoyt & Milne, San Fran, Calif
Miller, Carl F, & Co, Inc, Seattle, Wash
†New Jersey Zinc Sales Co, N Y
Rimco Trading Corp, N Y
†Royce Chem Co, Carlton Hill, N J
†Superior Zinc Co, Phila, Pa
†Unico, N Y
Zimmerman, C L, Co, Cincinnati, O

ZINC PALMITATE

$Zn(C_{16}H_{31}O_2)_2$. Fine white amorph. powd. somewhat coarser and less bulky than zinc stearate. M.P. 100°C. Insol. water, alcohol; partly sol. toluol. Uses—for flatting special lacquers; in rubber compounding. Grades—tech.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
†Leffingwell Chem Co, P O Box 191, Whittier, Calif — Oxford 42-653
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
†Metasap Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
†Parsens, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

ZINC PERCHLORATE

†Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343

ZINC PERMANGANATE

$Zn(MnO_4)_2.6H_2O$. M.W. 411.8. Dark brown deliquescent cryst. Sol. water. Uses—as oxidizing agent; in medicine.

†Carus Chem Co Inc, Union & 8 Sts, La Salle, Ill — La Salle 1500

ZINC PEROXIDE

Mixture of about 45% ZnO_2 + ZnO with some water; about 7.4% available oxygen. White to yellowish-white, odorless, bulky powd. Decomposes 150°C. Sol. acids (H_2O_2 liberated); insol. water, but gradually decomposed by it. Uses—in medicine, cosmetics, as disinfectant, astringent.

Becco Sales Corp, Buffalo, N Y — Bedford 8300
†Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300
†Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200

ZINC 1-PHENOL-4-SULFONATE

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

ZINC PHOSPHATES

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
★†Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
†Victor Chem Wks, 141 W Jackson Blvd, Chicago, Ill — Harrison 7-3541

ZINC POWDER

Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y	Dickens 2-490
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
European Chem Co Inc, 366 Bway, N Y	Beekman 3-6246

†New Jersey Zinc Sales Co, N Y

ZINC RESINATES

Liquids and solids available with a higher zinc content, higher melting point, lower acid number and paler color than has been possible to make heretofore.

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Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
†Meyer, J, & Sons, 4321 N 4 St, Phila, Pa	Michigan 4-3460
†Newport Industries Inc, 230 Park Av, N Y	Murray Hill 6-7305
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552

ZINC RICINOLEATE

†Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500

†Argus Chem Lab, Inc, Bklyn, N Y

ZINC SALICYLATE

$Zn(C_6H_4.OH.COO)_2+3H_2O$. M.W. 393.57. White, odorless needles or crystalline powder. Sol. water, alcohol. Uses—Medicine.

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y	Stillwell 6-2330
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980

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ZINC SILICOFLUORIDE

$ZnSiF_6.6H_2O$. M.W. 315.54. White crystalline powder. Sp. gr 2.104 at 20/4° C. Sol. in water.

†Amer Agricultural Chem Co, 50 Church St, N Y	Barclay 7-1400
Braun Corp, 2260 E 15 St, Los Angeles, Calif	Trinity 6031
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
†Davison Chem Corp, 101 N Charles St, Baltimore, Md	Saratoga 3900
†Du Pont de Nemours, E I & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
†Sundheimer, Henry, Co, 103 Park Av, N Y	Murray Hill 5-4214
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y	Stillwell 4-0500

Kem Labs, Bronx, N Y

ZINC STEARATE (Soap Dust)

$Zn(C_{18}H_{35}O_2)_2$. Fine, white, soft, bulky, amorp. powd. Sol. acids; insol. water, alcohol, ether. Uses—drier in making paints, enamels, varnishes, face powds., cosmetics, fireproofing compositions, crayons, oil-cloth and linoleum, dusting agent in the rubber industry. Grades—tech.; U.S.P.

†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
†Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
†Baker, J T, Chem Co, Phillipsburg, N J	Phillipsburg, 5-2151
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7756
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Hill Bros Chem Co, 2159 Bay St, Los Angeles, Calif	Trinity 7901
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
†Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass	Hubbard 2-1454
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
†Kohnstamm, H, & Co Inc, 83 Park Pl, N Y	Barclay 7-9760
Kraft Chem Co, 917 W 18 St, Chicago, Ill	Seeley 3-1919
La Pine, Arthur L, & Co, 125 W Hubbard St, Chicago, Ill	Superior 4365
†Leffingwell Chem Co, P O Box 191, Whittier, Calif	Oxford 42-653
Lo Bue, Philip J, Co, 230 Park Av, N Y	Murray Hill 9-0060
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y	Murray Hill 7-3600
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
†Mathe Chem Co, 169 Millbank St, Lodi, N J	Prescott 9-4981
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
†Metasap Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Mutchler Chem Co, Inc, 258 Bway, N Y	Digby 9-4735

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†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y	Evergreen 8-5600
†Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y	Beekman 3-3162
Philipp Bros Chems Inc, 37 Wall St, N Y	Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa	Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Reheis Co Inc, Berkeley Hghts, N J	Summit 6-7110
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
†Retort Pharmaceutical Co, Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y	Main 5-0567

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Kingston Chemical Co., Inc.

15 William Street, New York 5, N. Y.
WHitehall 4-0007

ZINC STEARATE (cont'd)

Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
†Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Wagner, Charles A, Co, Inc, 813 Callowhill St, Phila, Pa — Market 7-2670
Whittaker, Clark & Daniels Inc, 260 W Broadway, N.Y — Walker 5-3749
†Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Lewis Chem Co, Inc, Boston, Mass — Mfrs Chem Co, N Y

ZINC SULFATE (White Vitriol, Salts of Vitriol, Zinc Vitriol, White Copperas)

$ZnSO_4.7H_2O$. M.W. 287.55. Colorless, efflorescent cryst. Sp. gr. 1.9661. M.P. 39°C. Sol. water. Uses: mfr. zinc salts, drying oils, varnishes, lacquers, ceramics, enamels, lithopone, zinc white; mordant in dyeing and printing textiles; fireproofing textiles; as paint pigment; clarifying glue solutions; preservative in glues, adhesives, also for wood and hides; water disinfectant; zinc plating; black nickel plating; in medicine.

†Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Coburn, C B, Co, 63 Market St, Lowell, Mass — Lowell 9351

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†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kingston Chem Co, Inc, 15 William St, N Y — Whitehall 4-0007
Kraft Chem Co, 917 W 18 St, Chicago, Ill — Seeley 3-1919
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
†Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600
Page, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Phelps Dodge Refg Corp, 40 Wall St, N Y — Whitehall 4-0560
Philipp Bros Chems Inc, 37 Wall St, N Y — Hanover 2-4676
Phillips & Jacobs, 620-22 Race St, Phila, Pa — Walnut 2-3655
Prior Chem Corp, 420 Lexington Av, N Y — Lexington 2-9811
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
†Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7767
Rosenthal-Bercow Co Inc, 25 E 26 St, N Y — Murray Hill 3-7500
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294

ZINC SULFATE (cont'd)

Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Starkweather, J U, Co, Inc, 241 Allens Av, Providence, R I — Williams 1-0812
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
†Virginia Smelting Co, W Norfolk, Va — Portsmouth 7-3441
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

†Chem & Pigments Co, Oakland, Calif — †Murray-Williams Color & Chem Co,
Miller, Carl F, & Co, Inc, Seattle, Wash — †Naphthalene Prods Co, Tarrant, Ala

ZINC SULPHATE MONOHYDRATE

†Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
†Carwin Co, Stiles Lane, North Haven, Conn — New Haven 2-2161
Faesy & Besthoff Inc, 325 Spring St, N Y — Worth 4-8585
McKesson & Robbins, Inc, Chem Div, 155 E 44 St, N Y — Murray Hill 7-3600
Phelps Dodge Refg Corp, 40 Wall St, N Y — Whitehall 4-0560
†Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
†Tennessee Corp, P O Box 2205, Atlanta, Ga — Walnut 4210

†Amer Smelting & Refg Co, N Y — †Naphthalene Prods Co, Tarrant, Ala

ZINC SULFIDE

ZnS. Yellowish-white powd. Sp. gr. 3.98. M.P. 1049°C. Sublimes at 1180°C. Sol. acids. Uses: mfr. paints, enamels, varnishes, lacquers, luminous paints, lithopone, plastics, rubber, opaque glass, glues, adhesives, as artificial leather pigment; coloring oil-cloth and linoleum. Grades—tech.; C.P.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810

†Barium & Chems, Inc, Willoughby, O — †New Jersey Zinc Sales Co, N Y

ZINC SULFIDE, LUMINOUS

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Du Pont de Nemours, E I, & Co (Inc), (Photo Prods Dept), Wilmington, Del — Wilmington 4-5121

Vogel Luminescence Corp, San Fran, Calif

ZINC SULFOCARBOLATE (Zinc Phenol Sulfonate)

$[C_6H_4(OH)SO_3]_2$ Zn. M.W. 411.58. Used in mfr. antiseptics

†Baker, J T, Chem Co, Phillipsburg, N J — Phillipsburg, 5-2151
†Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

ZINC UNDECYLENATE

$(C_{11}H_{19}O_2)_2Zn$. M.W. 481.9. White, practically odorless powder; insol. water, alcohol. Use: medicinal.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y — Oregon 3-3850
†Baker Caster Oil Co, 119 Bway, N Y — Digby 9-0500
†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
†Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
†N Y Quinine & Chem Wks Inc, 99-117 N 11 St, Bklyn, N Y — Evergreen 8-5600

Reason, R F, Co, N Y

ZINC VALERATE

†Chemo Puro Mfg Corp, 26-32 Skillman Av, Long Is City, N Y — Stillwell 6-2330
†Fairmount Chem Co, Inc, 136 Liberty St, N Y — Barclay 7-6375

ZINC ZIRCONIUM SILICATE

†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214

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†Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
†Metal & Thermit Corp, 100 E 42 St, N Y — Murray Hill 6-5300
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

†Orefraction, Inc, Pittsburgh, Pa

ZIRCONIUM (Metal)

Zr. At.W. 91.22. A rare earth metal, silver-white crystalline or gray amorphous. Sp. gr. 4.15 (cryst.) and 6.4 (amor.). Insol. water, acids; sol. hydrochloric acid, aqua regia and molten alkalies. Has a valency of 4 and forms two series of compounds. Uses—in steel mfr. as silicon zirconium or ferrosilicon zirconium and forms many alloys useful in wire and filament manufacture.

†Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
†Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Mefford Chem Co, 1026 Santa Fe Av, Los Angeles, Calif — Trinity 6894
†Metal Hydrides, Inc, 16 Congress St, Beverly, Mass — Beverly 1875
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959

†Orefraction, Inc, Pittsburgh, Pa

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Registered U. S. Pat. Off.

ZIRCONIUM ACETATE

This compound is furnished in solution form and finds application in water repellant treatment of textiles.

TITANIUM ALLOY MFG. DIVISION
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For other products and services see our ads in Catalog Section

ZIRCONIUM ACETATE

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Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

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ZrO_2. M.W. 123.2. A heavy white powd. M.P. 2700°C.; insoluble in water and acids and soluble in hot sulfuric or hydrofluoric acid. Uses—mfr. refractories, gas mantles; in photography as a substitute for bismuth salts. Is an effective opacifier of fused enamels, glass and glazes.

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Is a chemically precipitated Zirconium Oxide of high purity which is used in the manufacture of Zirconium-Metal, as composition ingredient in high dielectric formulation, etc.

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Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
Smith, Geo F, Inc, 60 E 42 St, N Y — Murray Hill 7-5651
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Fay-Cole & Co, Inc, Boston, Mass

ZIRCONIUM OXYCHLORIDE

$ZrOCl_2.8H_2O$. M.W. 322.26. White silky crystals. Sol. water, alcohol.

T.A.M. ZIRCONIUM & TITANIUM PRODUCTS
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ZIRCONIUM OXYCHLORIDE, as well as Zirconium Acetate, is the basic compound from which other Zirconium compounds now used in catalysis, manufacture of toners, dye extenders, water repellants of textiles, etc., are produced.

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†City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

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†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
†Eimer & Amend, Greenwich & Morton Sts, N Y	Canal 6-4600
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$Zr(SO_4)_2 \cdot 4H_2O$. M.W. 355.30. White fine crystals. Sol. water, inorganic acids. Precipitates in alkalies. Uses: grease and oil additives, protein precipitants, catalyst supports, high temperature lubricants.

Amend Drug & Chem Co Inc, 117-119 E 24 St, N Y	Oregon 3-3850
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
†Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
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ZIRCONIUM TETRACHLORIDE

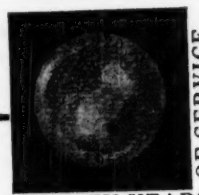
$ZrCl_4$. M.W. 232.80. Light yellow fine crystals. Sublimes at 400°C. Sol. alkalies, con. sulfuric acid, hydrofluoric acid. Decomposes in water, dilute acids. Uses: mfg. of emulsion type textile water repellants; topping-off reagent in formulation of pigment lakes; tanning agent.

City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
★†Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y	Barclay 7-0943

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This section consists of an alphabetical list of industrial research chemicals, both organic and inorganic, together with their manufacturers. It is limited to chemicals that are currently being produced in research quantities only.

Alphabetization is on the basis of the first letter of the chemical name, without regard to positional prefixes and breaks between terms. Separate categories are not provided for the various chemical families such as acids, alcohols, ethers, etc. Compounds belonging to these groups are listed according to the regular alphabetical sequence of letters in their names. For example, "Phenoxyacetic Acid" is listed under "P", and not under "A".

Key numbers after each chemical indicate the manufacturers of that chemical. At the end of this section is a list of names and addresses of companies corresponding to the key numbers.

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

A

Acetaldehyde Sodium Bisulfite 10
Acetnaphthalid 11
Acetoacet-2,5-dichloroanilide 10
o-Acetoacetotoluidide 10
Acetodichlorohydrin 10
2-Aceto-1-naphthol 10
1-Acetonaphthone 10
2-Acetonaphthone 10
Acetone Oxime 10
Acetone Phenylhydrazone 10, 20
Acetone Semicarbazone 10
Acetone Sodium Bisulfite 10
Acetophenone Oxime 10
2-Acetoxy-3-dimethylaminonaphthalene Methiodide 36
21-Acetoxypregnenolone 2
Acetylacetone 10
Acetyl o-Aminobenzoic Acid 10, 20
Acetyl p-Aminobenzoic Acid 10, 20
4-Acetylaminobiphenyl 10
2-Acetylamino-5-diethylaminotoluene . 10
p-Acetylaminodiethylaniline 10
2-Acetylamino-1,4-dimethylbenzene .. 10
4-Acetylamino-1,3-dimethylbenzene .. 10
2-Acetylaminofluorene 10, 11
1-Acetylamine-6-hydroxynaphthalene . 10
4-Acetylamino-3-nitrobiphenyl 10
Acetyl o-Aminophenol 10, 20
Acetyl p-Aminophenol 10, 20
5-p-Acetylaminophenylazo-8-hydroxyquinoline Hydrochloride 10
3-Acetylaminoquinoline 10
Acetyl o-Anisidine 10, 20
Acetyl p-Anisidine 10, 20
Acetylbenzoyl 10
Acetyl Bromide 7, 10
Acetyl n-Butylamine 10, 20
Acetyl n-Butylaniline 10
Acetylcaproyl 10
Acetyl Choline Bromide 10
Acetyl Di-n-butylamine 10, 20
Acetyl Diethylamine 10, 31
Acetyl Dimethylamine 10
Acetyl Diphenylamine 10, 20
N-Acetylethanolamine 10
Acetyl Ethylamine 20
N-Acetyl Glucosamine 19
Acetylglycine 10, 19, 20
Acetyl b-Methoxyethylamine 10
Acetyl Methyl Acetate 10
Acetyl Methylamine 9, 10
Acetyl p-Methylaminophenol 10
Acetyl Methyl-α-naphthylamine 10
Acetyl Methyl-o-toluidine 10
Acetyl Methyl-p-toluidine 10
Acetyl Methylurea 10, 19
N-Acetylmorpholine 10
Acetyl α-Naphthylamine 10
Acetyl β-Napithylamine 10, 20
Acetyl o-Phenetidine 10, 20
Acetyl m-Phenetidine 10
Acetyl Phenylglycine 10
Acetyl Phenylhydrazine 10, 20
Acetyl Piperidine 10, 20
Acetyl n-Propylaniline 10
Acetylsalicylaldehyde Diacetate 10
4-Acetyl-o-terphenyl 10
1-Acetyl-2-thiohydantoin 10
Acetyl o-Toluidine 10, 20
Acetyl m-Toluidine 10, 20
Acetyl p-Toluidine 20
Acridone 10, 20
Acrylic Acid, Glacial 21
Acrylic Anhydride 21
Acrylyl Chloride 21
Adipamide 10
Adipyl Chloride 10, 20
Aesculin 19
dl-Alanine Ethyl Ester Hydrochloride . 10
Aleuritic Acid 10
Alloxantin 10
Allyl Acetate 10
Allyl Acrylate 21
Allyl Adipate 21
Allyl-β-Alloxypropionate 21
Allylarsonic Acid 10
Allyl Cinnamate 21
Allyl Crotonate 21
Allyl Ethyl Ether 10
Allyl Formate 10
Allyl Methacrylate 21
Allyl Phenyl Ether 7
Allyl Propionate 10
Allyl Succinate 21
Allylurea 10

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Aluminum Benzoate 4
Aluminum Ethoxide 10
Aluminum Perchlorate 32
Aluminum iso-Propoxide 10
m-Aminoacetanilide Hydrochloride ... 10
m-Aminoacetophenone 9, 10
p-Aminoacetophenone 10
2-Amino-5-azoanisole 10
4-Aminoazobenzene-4'-sulfonic Acid (Sodium Salt) 10
2-Amino-5-azotoluene 10
Aminoazoxylene Hydrochloride 10
o-Aminobenzenesulfonic Acid 10
p-Aminobenzenesulfonamide 10
2-Aminobenzimidazole 10, 20
5-Amino-2-benzimidazolethiol 10
m-Aminobenzoic Acid 10
m-Aminobenzonitrile 10
p-Aminobenzonitrile 10
p-Aminobenzophenone 20
m-Aminobenzotrifluoride 10, 14, 16
2-Amino-5-bromotoluene 20
2-Amino-5-bromotoluene Hydrochloride 20
dl-α-Amino-n-butyric Acid 7, 10
α-Amino-iso-butyric Acid 10
dl-α-Amino-n-caproic Acid 10
ϵ-Amino-n-caproic Acid 10
dl-α-Aminocaprylic Acid 10
2-Amino-5-chlorobenzoic Acid 10
2-Amino-4-chlorotoluene 10
2-Amino-5-chlorotoluene Hydrochloride 10
2-Amino-p-cymene 10
2-Amino-5-diethylaminopentane 10
2-Amino-5-diethylaminotoluene Hydrochloride 10
p-Aminodiethylaniline 10, 20
2-Amino-3,5-diiodobenzoic Acid 10
p-Aminodimethylaniline Monohydrochloride 10, 20
p-Aminodimethylaniline Oxalate 10
p-Aminodimethylaniline Sulfate 10
2-Amino-1,3-dimethylbenzene 10
2-Amino-1,4-dimethylbenzene 10
4-Amino-1,3-dimethylbenzene 10
5-Amino-1,3-dimethylbenzene 10
4-Amino-1,3-dimethylbenzene Acetate 10
2-Amino-1,4-dimethylbenzene Hydrochloride 10
3-Amino-1,2-dimethylbenzene Hydrochloride 10
4-Amino-1,3-dimethylbenzene-5-sulfonic Acid 10
o-Aminodiphenyl 10
p-Aminodiphenyl 10
4-Aminodiphenylamine Monohydrochloride 10
2-Amino-4-(p-diphenyl)thiazole 10
2-Aminoethylsulfuric Acid 10
2-Aminofluorene 10
Aminoguanidine Bicarbonate 10
Aminoguanidine Sulfate 10
p-Aminohippuric Acid 10, 28
Aminohydroquinone Diethyl Ether ... 10
Aminohydroquinone Dimethyl Ether .. 10
1-Amino-4-hydroxyanthraquinone 10
2-Amino-2-(hydroxymethyl)-1,3-propanediol 10
2-Amino-5-hydroxytoluene Hydrochloride 10
5-Amino-2-hydroxytoluene Sulfate .. 10
6-Amino-2-mercaptobenzothiazole 10, 20
2-Amino-4-methyl-6-chloropyrimidine . 20
2-Amino-4-methylpentane 31
2-Amino-2-methyl-1,3-propanediol ... 10
2-Amino-2-methyl-1-propanol 10
2-Amino-3-methylpyridine 10
2-Amino-4-methylpyridine 10
2-Amino-5-methylpyridine 10
2-Amino-6-methylpyridine 10
2-Amino-4-methyl-6-pyrimidone 20
1-Amino-2-naphthol Hydrochloride 10, 20
4-Amino-1-naphthol Hydrochloride ... 10
5-Amino-1-naphthol Hydrochloride ... 10
2-Amino-5-naphthol-7-sulfonic Acid . 10
2-Aminonaphthoquinone 10
4-Amino-3-nitrobiphenyl 10
2-Amino-n-octane 10
4-Amino-3-pentadecylphenol 10
o-Aminophenol 10
m-Aminophenol 10
p-Aminophenol 10
p-Aminophenol Hydrochloride 10
o-Aminophenol Oxalate 10
p-Aminophenol Oxalate 10
o-Aminophenol-p-sulfonic Acid 10
dl-α-Aminophenylacetic Acid 10, 20
p-Aminophenylacetic Acid 10, 20
p-Aminophenylacetonitrile Hydrochloride 10
p-Aminophenylmercuric Acetate 10
2-Amino-4-phenylphenol 10

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N-(3-Aminopropyl) morpholine 10
2-Aminopyrimidine 10
3-Aminoquinoline 10
8-Aminoquinoline 10
2-Aminoresorcinol Hydrochloride . 10, 20
5-Aminosalicylic Acid Hydrochloride . 20
2-Aminothiophene 1
2-Aminotoluene-4-sulfonic Acid 10
2-Aminotoluene-5-sulfonic Acid .. 10, 20
4-Aminotoluene-2-sulfonic Acid 10
4-Aminotoluene-3-sulfonic Acid 10
5-Aminouracil 10
dl-α-Amino-n-valeric Acid 10
δ-Amino-n-valeric Acid Hydrochloride . 10
Ammonium Hydrogen o-Sulfobenzoate . 10
Ammonium Iodate 32
Ammonium Mucate 10
Ammonium Rhodanilate 10
Ammonium Selenite 4
Ammonium Tellurate 4
p-n-Amoxybenzoyl Chloride 10
n-Amyl Acrylate 21
iso-Amylamine 10
tert-Amylamine 22
iso-Amylaniline 10
p-sec-Amylaniline 10
p-tert-Amylaniline 10, 20
sec-Amylbenzene 10
tert-Amylbenzene 10
iso-Amyl Benzoate 10
iso-Amyl Benzyl Ether 10
iso-Amyl-n-Butyrate 10
iso-Amyl Caproate 10
n-Amyl Carbamate 20
n-Amyl Chlorocarbonate 10
Amyldiphenyl 10, 31
n-Amyl Disulfide 10
iso-Amyl Disulfide 10
β-n-Amylene 20
iso-Amyl Mercaptan 10
n-Amyl Methacrylate 21
iso-Amyl Nitrite 10
n-Amyl Orthoformate 10
m-(p-tert-Amylphenoxy) benzoic Acid . 10
n-Amyl Propionate 10
iso-Amyl Propionate 10
2-n-Amylpyridine 10
4-n-Amylpyridine 10
iso-Amyl Salicylate 10
iso-Amyl Stearate 10, 20
N-n-Amylsuccinimide 10
n-Amyl Sulfite 10
n-Amyl-p-toluidine 10
tert-Amylurea (mono) 10
iso-Amyl iso-Valerate 10
Aniline Acetate 10
Aniline Blue 10
Aniline Hydrobromide 10
Aniline Phosphate 22
Anisalacetone 10, 20
p-Anisidine 10
Anisil 20
Anthracene 10
9-Anthraldehyde 10
Anthraquinone-1-diazonium Chloride . 36
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D-(-)-Arabinose 6, 10
L-(+)-Arabinose 10
L-(+)-Arginine Monohydrochloride ..10
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Arsenic Tribromide 7
Arsenous Bromide 4
Artisone 2
d-iso-Ascorbic Acid 10
dl-b-Asparagine 10
Auramine 10
Aurin 10
Aurin Sodium Salt 10
Aurin Tricarboxylic Acid 10
Aurin Tricarboxylic Acid Ammonium Salt 10
Azeloanitrile 5
p,p'-Azoxyanisole 20, 28
Azoxybenzene 10, 20

B

Barium Borate 4
Barium Borotungstate 4
Barium Bromate 4
Barium Cobalticyanide 4
Barium Diphenylamine-p-sulfonate 10, 32
Barium Iodate 32
Barium Nitrite 4
Barium Periodate 4, 32
Barium Silicate 4
Benzalacetone 10
Benzalacetophenone 10, 20
Benzalacetophenone Dibromide 10
p-Benzalaminophenol 10
Benzalaniline 10, 20
Benzalazine 10
Benzal Chloride 10, 20
Benzaldehyde Oxime 10
Benzaldehyde Phenylhydrazone 10
Benzalmethylamine 10
5-Benzal-2-thiohydantoin 10
Benzamidine Hydrochloride 19
Benzanilide 10, 20
1,2-Benzanthracene 10
1,2-Benzanthraquinone 10
Benzanthrone 10, 25
Benzeneazo-m-cresol 10, 20
Benzeneazo-o-cresol 20
Benzeneazodiphenylamine 10, 20
4-Benzeneazo-1-naphthylamine 10
Benzeneazoresorcinol 10
m-Benzenedisulfonic Acid 10
Benzene Hexabromide 10
Benzene Phosphinic Acid 34
Benzene Phosphonic Acid 34
Benzene Phosphorous Oxydichloride 34
Benzene Phosphorous Thiodichloride .. 34
Benzenesulfohydroxamic Acid 10
Benzenesulfonyldiethylamide 10
Benzenesulfonylethylamide 10
Benzenesulfonyl-iso-propylamide 10
Benzidine Acetate 20
Benzil 10
α-Benzil Dioxime 10, 20
Benzilic Acid 10
α-Benzil Monoxime 10
Benzimidazole 10, 19, 20
2,3-Benzofluorene 11
o-Benzoic Sulfimide 10
Benzophenone-anil 10
Benzophenone Oxime 10
Benzothiazole 10
2-Benzothiazolylhydrazine 10
Benzoxazole 10
Benzoylacet-4-nitroanilide 10
Benzoylacetone 10, 20
Benzoylacetonitrile 10
β-Benzoylacrylic Acid 21
l-Benzoylalanine 10
dl-Benzoylalanine 10
α-Benzoyl Argininamide 12
Benzoyl Bromide 10
Benzoylcarbinol 10
Bezoyl α-Naphthylamine 10
Benzoyl Piperadine 10, 20
1-Benzoyl-2-thiohydantoin 10
Benzpyrene 11
Benzylamine 10, 11, 31
2-Benzylamino-1,4-dimethylbenzene .. 10
p-Benzylaminophenol 10
p-Benzylaminophenol Hydrochloride .. 10
Benzylarsonic Acid 10
Benzyl Bromide 7, 10
Benzyl Chloroacetate 10
Benzyl Citrate 10
Benzyldimethylamine 29
Benzyl Disulfide 10
Benzyl Ethyl Ether 10
Benzylethyl-m-toluidine 10
Benzyl Hydrogen Succinate 10
Benzylmalonic Acid 10, 20
Benzyl Mercaptan 20
Benzyl Methyl Ether 10
Benzyl α-Naphthyl Ether 10
2-Benzyloxyethyl Acrylate 21
2-Benzyloxyethyl Methacrylate 21
p-Benzylphenol 10
α-Benzyl-α-phenylhydrazine Hydrochloride 10
Benzylphenylnitrosoamine 10
N-Benzylpyrrole 10
p-Benzylstyrene 21
Benzyl-iso-thiourea Hydrochloride 10, 20
Benzyl-o-toluidine 10
Benzyl-m-toluidine 10
Benzyl-p-toluidine 10
Benzyltrimethylammonium Hydroxide 10, 29
4,4'-Biantipyrine 7
Bicuculline 10
Bicyclo(2,2,1) 5-heptene-2,3-dicarboxylic Anhydride 10
Bicyclohexyl 10
Biliverdin 10
4-Biphenylcarbonitrile 10
2-Biphenylyldiphenyl Phosphate 7
2-Biphenylyl Isocyanate 10
4-Biphenylyl Isocyanate 10
Biphenylylphenyl Ether 7
2,2'-Bipyridil 32
2,2'-Bipyridil Hydrochloride 32
2,2'-Bipyridil Ruthenous Dichloride Hexahydrate 32
1,2'Bis(2-Biphenylyloxy)ethane 7
Bis(2-Bromoethyl) Ether 7
Bis(p-Bromophenyl) Ether 7
Bis(p-tert-Butylphenyl)phenyl Phosphate 7
Bis(o-Chlorophenyl)phenyl Phosphate . 7
Bis(dimethylthiocarbamyl) Sulfide .. 10
Bis(Trichlorosilyl)butane 38
Bis(Trichlorosilyl)ethane 38
1,8-Bis(p-Hydroxyphenyl)methane .. 23
Bismuth Chromate (Basic) 4
Bismuth-o-Phosphate 4
Bismuth Tartrate 4
p,p'-Bisphenol 7
Biuret 20
Boric Oxide 10
Bromal 10
p-Bromoacetanilide 7, 10
p-Bromoacetophenone 10, 20
3-Bromo-4-acetylaminotoluene 10
5-Bromo-2-acetylaminotoluene 10
Bromoacetyl Bromide 10
3-Bromo-4-aminotoluene 10
5-Bromo-2-aminotoluene 10
o-Bromoaniline 10
m-Bromoaniline 10, 28
p-Bromoaniline Hydrochloride 10
m-Bromoanisole 28
o-Bromoanisole 10
p-Bromoanisole 10, 20
p-Bromobenzenesulfonyl Chloride .10, 20
o-Bromobenzoic Acid 10
m-Bromobenzoic Acid 10
p-Bromobenzoic Acid 10
m-Bromobenzoyl Bromide 10
m-Bromobenzoyl Chloride 10
1-Bromo-1-butene (Cis and Trans) ... 5
2-Bromo-1-butene 5
2-Bromo-2-butene (Cis and Trans) ... 5
2-Bromo-4-tert-butylphenol 10
a-Bromo-n-Butyric Acid 7, 10
a-Bromo-iso-Butyric Acid 30
γ-Bromobutyronitrile 10
d-Bromocamphor 10
a-Bromocapric Acid 30
a-Bromo-n-caproic Acid 10, 30
a-Bromo-iso-caproyl Bromide 11
a-Bromocaprylic Acid 30
1-Bromo-4-chlorobenzene 7
1-Bromo-3-chlorobutane 14
Bromochloromethane 10
2-Bromo-1-chloropropane 7, 10
Bromocyclohexane 10
2-Bromocymene 10
2-Bromo-5-diethylaminopentane Hydrobromide 10
p-Bromodiethylaniline 10
2-Bromo-1,4-dimethylbenzene 10
o-Bromodiphenyl 10
p-Bromodiphenyl 7, 10
p-Bromodiphenyl Ether 10
β-Bromoethyl Acetate 10
β-Bromoethylamine Hydrobromide . 7, 10
ar-Bromoethylbenzene (Mixture of isomers) 7
2-Bromoethyl Cyclohexane 7
b-Bromoethyl Ethyl Ether 5, 10
b-Bromoethyl Phenyl Ether 10
b-Bromoethylphthalimide 10, 20
α-Bromoheptanoic Acid 30
Bromohydroquinone 10
o-Bromoiodobenzene 10
α-Bromolauric Acid 30
Bromomalonic Ester 20
Bromomesitylene 10
Bromomethyl Acetate 10
1-Bromo-3-methylpentane 5
α-Bromomyristic Acid 30
α-Bromonaphthalene 10
β-Bromonaphthalene 10
4-Bromo-3-nitrobiphenyl 10
2-Bromo-n-octane 10
4-Bromooctane 5
α-Bromopalmitic Acid 30
p-Bromophenacyl Bromide 10
o-Bromophenetole 10
p-Bromophenetole 7, 10
o-Bromophenol 10
p-Bromophenol 7, 10
p-Bromophenylhydrazine Hydrochloride 10, 20
p-Bromophenyl Isocyanate 10
p-Bromophenyl Phenyl Ether 7
Bromo-tere-phthalic Acid 10, 19
Bromopicrin 10
1-Bromo-1-propene 14
m-Bromopropionic Acid 7, 10
β-Bromopropionic Acid 7, 10
β-Bromopropionitrile 7, 10
α-Bromopropionyl Bromide 10
β-Bromo-n-propyl Acetate 10
ar-Bromo-iso-Propylbenzene (Mixture of isomers) 7
γ-Bromopropyl Phenyl Ether 10
3-Bromoquinoline 10
6-Bromoquinoline 10
5-Bromosalicylic Acid 7
5-Bromosalicylic Acid Acetate 7
m-Bromostearic Acid 30
β-Bromostyrene 10
o-Bromotoluene 7, 10
m-Bromotoluene 10
p-Bromotoluene 7, 10
2-Bromotoluene-5-sulfonic Acid 12
α-Bromo-n-Valeric Acid 10, 30
α-Bromo-iso-Valeric Acid 10, 30
α-Bromo-p-xylene 10
ar-Bromoxylene (Mixture of isomers) . 7
Bromo-o-xylene 11
Bromosulfphthalein 13
ω-Bromoundecylic Acid 12

BISPHENOL A
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See listing ad for other products

1,3-Butanediol 10
1-Butanesulfonyl Chloride 10
Butenyltrichlorosilane 38
p-n-Butoxybenzoic Acid 20
β-Butoxybutyric Acid 10
β'-Butoxy-b-ethoxyethyl Acetate ... 10
2-n-Butoxyethyl Acrylate 21
2-n-Butoxyethyl Methacrylate 21
n-Butoxyethyl Phthalate 10
N-Butylacetanilide 7
iso-Butyl Acetate 10
iso-Butyl Acrylate 29
n-Butyl Acrylate 29
iso-Butylamine 10
tert-Butylamine 22
sec-Butylamine 10
N-n-Butyl-p-aminophenol 33
n-Butylaniline 7, 10, 20
n-Butylarsonic Acid 10
n-Butylbenzene 10
N-n-Butylbenzenesulfonamide 35
n-Butylbenzenesulfonate 10, 35
iso-Butyl Benzoate 10
n-Butyl Benzyl Ether 10
n-Butyl n-Butyrate 10
n-Butyl Caproate 10
α-sec-Butylcaproic Acid 10
n-Butyl Carbamate 10
sec-Butylcarbinol 10, 20
iso-Butyl Chloride 5, 10
sec-Butyl Chloride 10
tert-Butyl Chloride 10
n-Butyl Chloroacetate 10
n-Butyl Chlorocarbonate 10
iso-Butyl Chlorocarbonate 10
4-tert-Butyl-2-chlorophenol 7, 10
α-n-Butylcinnamic Acid 20
6-tert-Butyl-m-cresol 10
6-tert-Butyl-o-cresol 18
p-tert-Butyl-o-cresol 18
Butylcyclohexane 10
β-Butylcyclohexaneacetic Acid ... 7, 10
2-sec-Butylcyclohexanol 7
4-sec-Butylcyclohexanol 7
4-tert-Butylcyclohexanol 7
1,3-Butylene Oxide 6
2,3-Butylene Oxide 6
iso-Butylene Oxide 12
n-Butyl Ethyl Ketone 10
iso-Butyl Formate 10
sec-Butyl Formate 10
n-Butylglyoxylate 9
n-Butyl Hydrogen Phthalate 10
n-Butyl α-Hydroxy-iso-butyrate 10
n-Butylidene Chloride 10
p,p'-sec-Butylidenediphenol 7
iso-Butyl Iodide 10
tert-Butyl Iodide 10
n-Butyl Isothiocyanate 10
n-Butyl Itaconate 10
n-Butyl Mercaptan 10
iso-Butyl Mercaptan 10
n-Butyl Methacrylate 21
n-Butyl o-Methoxybenzoate 10
1-n-Butyl-4-methylcarbostyril 11
n-Butyl Nitrite 10, 32
n-Butyl Oxamate 10
p-tert-Butylphenoxy Acetic Acid . 7, 10
β-(p-tert-Butylphenoxy)ethyl Alcohol 10
α'-(p-tert-Butylphenoxy)propionic Acid 7
iso-Butyl Phenylacetate 10
n-Butylphenylcarbinol 10
p-tert-Butylphenyl Diphenyl Phosphate. 7
n-Butyl Phenyl Ether 10
p-tert-Butylphenyl Phenyl Ether 7
n-Butylphosphoric Acid 10
iso-Butyl Propionate 10
N-n-Butylpyrrole 10
n-Butyl Salicylate 10
p-tert-Butylstyrene 21
n-Butyl d-Tartrate 10
n-Butyl Thiocyanate 10
n-Butyl p-Toluenesulfonate 10
n-Butylurea 20
iso-Butyl iso-Valerate 10
n-Butyl Vinyl Ether 10
n-Butyraldehyde Phenylhydrazone 10
n-Butyraldoxime 10
iso-Butyraldoxime 10
n-Butyramide 10
iso-Butyramide 10
n-Butyranilide 10
n-Butyronitrile 10
Butyrophenone 10
iso-Butyrophenone 10
α-Butyroxyacetophenone 11
n-Butyryl Bromide 10
iso-Butyryl Bromide 10

C

Cacotheline 10, 20
Cadaverine Hydrochloride 28
Caesium Iodide 28
Caesium Nitrate 28
Cadmium Tartrate 4
Calcium Ascorbate 22
Calcium Bichromate 4
Calcium Bromate 4
Calcium Malonate 10
Calcium Methionate 28
Calcium-α-Naphthyl Phosphate 36
Calcium-β-Naphthyl Phosphate 36
Calcium Selenate 4
Calcium m-Xylenesulfonate 10
d-Camphor Oxime 10
d-Camphorsulfonic Acid 10
Caproamide 10, 20
n-Capranilide 10
iso-Capric Acid 10
Caproic Anhydride 10
n-Capronitrile 10
iso-Capronitrile 10
Caprophenone 10
n-Caproyl Chloride 10
iso-Caproyl Chloride 10, 20
Caprylene 10
Carbamide Phosphoric Acid 34
Carbamyl Diurethane 28
Carbon Tetrabromide 7, 10, 14
Cardiolipin 2
Carminic Acid 10
Carvacrol 10
Cellobiose 10, 19
Cellobiose Octaacetate 10, 19
Cellulose Acetate Hydrogen Phthalate. 10
Cellulose Acetate Stearate 10
Cellulose Triacetate 10
Ceric Perchlorate (Solution) 32
Cerium Bromide 4
Cerous Ammonium Nitrate 32
Cerous Perchlorate 32
Cetyl Acetate 10, 20
Cetylamine 10
Cetyl Dimethylamine 11
Chloral Alcoholate 10
α-Chloralose (Anhydrous) 13
Chloranilic Acid 10
Chloroacetal 10, 20
Chloroacetaldehyde Diethyl Acetal ... 7
Chloroacetamide 10, 20
o-Chloroacetanilide 10, 20
m-Chloroacetanilide 10, 20
p-Chloroacetanilide 10
Chloroacetdiethylamide 10
Chloroacetic Anhydride 10
Chloroacetonitrile 10
p-Chloroacetophenone 10
4-Chloro-2-aminoanisole 10
4-Chloro-2-aminoanisole Hydrochloride 10
o-Chloro-p-aminobenzoic Acid 19
6-Chloro-2-aminotoluene 10
p-Chloroanilido Phosphonic Acid 36
p-Chloroanisole 10, 20
m-Chlorobenzoic Acid 10
o-Chlorobenzonitrile 10
p-Chlorobenzonitrile 10, 20
4-Chlorobenzophenone 7, 10
2-Chlorobenzothiazole 10
o-Chlorobenzotrifluoride 14, 16
m-Chlorobenzotrifluoride 14, 16
p-Chlorobenzotrifluoride 14, 16
2-Chlorobenzoxazole 10
Chloro(Biphenylyl Phenyl Ether) 7
m-Chlorobromobenzene 10
p-Chlorobromobenzene 10
1-Chloro-4-bromobutane 14
γ-Chlorobutyronitrile 10
o-Chlorocinnamic Acid 10
4-Chloro o-Cresol 7
6-Chloro o-Cresol 7
Chlorocyclohexane 10
Chlorodibromomethane 10
1-Chloro-2,3-dibromopropane 14
2-Chloro-4,6-dinitrophenol 7, 10
2-Chloroethoxyethyl Acrylate 21
2-Chloroethoxyethyl Methacrylate ... 21
β-Chloroethyl Acetate 7, 10
2-Chloroethylamine 28
1-Chloro-4-ethylbenzene 7
β-Chloroethyl Chlorocarbonate 10
β-Chloroethyl Phenyl Ether 7, 10
β-Chloroethyl p-Toluenesulfonate ... 10
α-Chloroethyltrichlorosilane 38
β-Chloroethyltrichlorosilane 38
2-Chloroethyl Vinyl Ether 10
1-Chloro-2-fluoro 1-Propene 14
1-Chloro-4-hydroxybutane 14
4-Chloro-1-hydroxy-2-naphthoic Acid . 10
2-Chloro-5-hydroxytoluene 10
o-Chloroiodobenzene 10
m-Chloroiodobenzene 10
p-Chloroiodobenzene 10
Chlorolose 28
Chloromaleic Anhydride 10
5-Chloro-2-methylbenzothiazole 10
Chloromethyl Ether 10
α-Chloromethylnaphthalene 10
4-Chloro-3-methyl-2-nitrophenol 10
4-Chloro-2-nitroanisole 10
2-Chloro-5-nitrobenzoic Acid ... 10, 20
4-Chloro-3-nitrobenzoic Acid 10
2-Chloro-5-nitrobenzotrifluoride 16
4-Chloro-3-nitrobenzotrifluoride 16

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2-Chloroctane 10
1-Chloro-4-pentanone 20
p-Chlorophenacyl Bromide 10
o-Chlorophenetole 10, 20
p-Chlorophenetole 10, 20
m-Chlorophenol 10, 20
o-Chlorophenoxyacetic Acid 7, 10
p-Chlorophenoxyacetic Acid 10
α-(o-Chloro)phenoxypropionic Acid ... 7
x-Chlorophenoxythioxin (Mixture of isomers) 7
o-Chlorophenyl Diphenyl Phosphate ... 7
p-Chloro-o-phenylenediamine 10
p-Chlorophenylhydrazine Hydrochloride 10
o-Chlorophenyl Isocyanate 10
m-Chlorophenyl Isocyanate 10
β-Chloro-o-phenylphenetole 7
2-Chloro-6-phenylphenol 10
4-Chloro-2-phenylphenol 10
4'-Chlorophenyl-4-toluenesulfonate ... 10
Chloropicrin 10
β-Chloropropionic Acid 10
β-Chloropropionyl Chloride 10, 20
γ-Chloropropyl Chlorocarbonate 10
γ-Chloropropyl p-Toluenesulfonate .. 10
β-Chloropropyltrichlorosilane 38
8-Chloroquinoline 10
α-Chlorostyrene 21
β-Chlorostyrene 21
4-Chlorostyrene 21
m-Chlorosulfonylbenzoyl Chloride ... 10
1-(2'-Chloro-5'-sulfophenyl)-3-methyl-5-pyrazolone 10
4-Chloro-o-toloxyacetic Acid 7
4-Chloro-a,a,a-trifluoro-3-nitrotoluene 10
1-Chloro-4-vinylnaphthalene 21
Cholesteryl Acetate 10, 20
Choline Chloride 10
Chromic Perchlorate 32
Chromic Tungstate 4
Chrysophenin 10
Cinnamalacetophenone 10, 20
trans-Cinnamic Acid 10
Cinnamoyl Chloride 10
Cinnamyl Acrylate 21
Cinnamyl Alcohol 10
Cinnamyl Chloride 10
Cinnamyl Methacrylate 21
Cobalt Bromide 4
Cobalt Molybdate 4
Cobaltous Arsenate 4
Cobaltous Borate 4
Cobaltous Citrate 4
Cobaltous Perchlorate 32
Copaivic Acid 10
Copper Ammonium Chromate 4
o-Coumaric Acid 20
Coumarilic Acid 10
Creatine (Hydrate) 10
Creatinine 10
Creatinine Zinc Chloride 10
Cresidine 10
o-Cresolsulfonephthalein Sodium Salt . 10
o-Cresyl Acetate 10
m-Cresyl Acetate 9, 10
o-Cresyl Benzoate 10
p-Cresyl Benzoate 10
o-Cresyl Ethyl Ether 10, 20
m-Cresyl Ethyl Ether 10, 20
p-Cresyl Ethyl Ether 10, 20
p-Cresyl Ethyl Sulfide 10
o-Cresyl Methyl Ether 10, 20
m-Cresyl Methyl Ether 10, 20
p-Cresyl Methyl Ether 10
p-Cresyl Methyl Sulfide 10
o-Cresyl p-Toluenesulfonate 10
Crotonyl Chloride 10
Cumene (iso-Propylbenzene) 10
Cupric Perchlorate 32
Cupric Selenite 3, 4
Cupric Stannate 4
Cyanoacetamide 10
Cyanoacetanilide 10
Cyanogen Bromide 10
7-Cyano-4-methylhydrindene 11
Cyanuric Acid 10
Cyanuric Chloride 10
1,3-Cyclohexadiene 12
1,4-Cyclohexadiene 12
Cyclohexaneacetic Acid 7, 10
Cyclohexanebutyric Acid 7, 10
Cyclohexanocaproic Acid 7, 10
Cyclohexanepropionic Acid 7, 10
Cyclohexanevaleric Acid 7, 10
2-Cyclohexene-1-caproic Acid 7
Cyclohexene Oxide 12
Cyclohexyl Acetate 10
Cyclohexyl Adipate 10
1-Cyclohexylamino-2-propanol 7
2-Cyclohexylcyclohexanol 7, 10
4-Cyclohexylcyclohexanol 7, 10
β-Cyclohexylethyl Bromide 10
Cyclohexyl Fluoride 14
Cyclohexyl Maleate 10
Cyclohexyl Methacrylate 21
Cyclohexyl Oxalate 10
1-(p-Cyclohexylphenoxy)-2-propanol .. 7

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Cyclohexyltrichlorosilane 38
Cyclopentanepropionic Acid 10
Cyclopentanevaleric Acid 10
Cyclopentanol 1
Cyclopentanone Oxime 1
Cyclopentyl Bromide 1
Cyclopentyl Chloride 14
Cyclopropyltrichlorosilane 38
p-Cymenesulfonic Acid 35

D

Decahydroquinoline 10
Decamethylene Dichloride 5
Decamethylene Diiodide 5
n-Decane 10
Decanone-2 30
Decanone-3 30
Decanone-4 30
Decanone-5 30
n-Decyl Acrylate 21
n-Decyl Aldehyde 14
n-Decyl Iodide 10
n-Decyl Methacrylate 21
n-Decyl-1-sulfonic Acid 20
Dehydro-iso-androsterone 2
Desoxyanisoin 20
Desoxybenzoin 10, 20
Desoxycorticosterone 2
Desoxyinositol 6
Desoxyribonucleic Acid 19
α-Dextrose Pentaacetate 10
β-Dextrose Pentaacetate 10
Diacetin 10
Diacetone Alcohol 10
1,4-Diacetylamino-2-nitrobenzene ... 10
Diacetyl p-Aminophenol 10
Diacetyl Benzidine 10
Diacetyl Monomethoxime 10
Diacetyl p-Phenylenediamine 10
Diacetyl Thiourea 10
Diacetyl Urea 10
Diallyl Fumarate 21
Diallyl Maleate 21
Diallyl Malonate 21
Diallyl Oxalate 21
Diallyl Phthalate.. ..... 10, 21
Diallyl Sulfide 10
3,6-Diaminoacridine Sulfate 10
2,4-Diaminoanisole Dihydrochloride .. 10
4,4'-Diamino-2,2'-biphenyldisulfonic Acid 10
1,3-Diaminobutane 31
1,4-Diaminobutane Dihydrochloride .. 10
2,5-Diaminechlorobenzene Dihydrochloride 10
2,4-Diaminodiphenylamine 10
4,4'-Diaminodiphenylamine-2-sulfonic Acid 10
p,p'-Diaminodiphenylmethane 7, 10
3,4-Diamino-2,7-naphthalenedisulfonic Acid 10
1,3-Diamino-2-propanol 10
4,4'-Diaminostilbene-2,2'-disulfonic Acid 10
2,4-Diaminotoluene 10
3,4-Diaminotoluene 10
2,5-Diaminotoluene Dihydrochloride . 10
2,4-Diaminotoluene Monohydrochloride 10
2,5-Diaminotoluene Sulfate 10
Di-iso-amylamine 10
Diamylbiphenyl 31
Di-n-amyl Carbonate 10
Di-iso-amyl Carbonate 10
Diamyl-m-cresol 18
Di-iso-amyl Ether 10
Di-tert-amylhydroquinone 10
Di-iso-amyl Oxalate 10
2,4-Di-tert-amylphenoxyacetic Acid .. 10
Di-n-amyl Phthalate 10, 20
Di-n-amyl Succinate 10, 20
Di-iso-amyl Sulfide 10
Di-iso-amyl Tartrate 10
3,3'-Dianisol-bis-4,4'(3,5-Diphenyl)tetrazolium Chloride 21
Diazoaminobenzene 10
Dibenzalacetone 10, 20
1,2,5,6-Dibenzanthracene 10, 11
1,2,5,6-Dibenzanthracene Endo Succinic Acid 11
2,4-Dibenzenearesorcinol 10
2,2'Dibenzothiazolyl Disulfide 10
Dibenzothiophene 10
Dibenzoylethylenediamine 10
Dibenzoylmethane 10
Dibenzyl 10, 20
Dibenzylacetic Acid 10
Dibenzylamine 10
Dibenzylaniline 10
Dibenzyl Ether 10
Dibenzyl Ketone 10
Dibenzyl Maleate 10
Dibenzylmalonic Acid 20
Dibenzyl Phthalate 10
2,6-Dibromo-4-aminophenol 10
3,5-Dibromoaniline 10
9,10-Dibromoanthracene 10
5,5-Dibromobarbituric Acid 10
2,5-Dibromobenzenesulfonic Acid ... 12
4,4'-Dibromobiphenyl 10
1,2-Dibromobutane 5, 7, 10
1,3-Dibromobutane 14
2,3-Dibromobutane 5, 10
1,1-Dibromo-1-butene 5
2,3-Dibromo-2-butene (Cis and Trans) 5
2,6-Dibromo-4-tert-butylphenol 7
1,2-Dibromo-3-chloropropane 7
4,6-Dibromo-o-cresol 10
Dibromo-o-cresolsulfonephthalein Sodium Salt 10
1,2-Dibromocyclohexane 7
Dibromocyclopentane 5
1,2-Dibromo-1,1-dichloroethane ... 7,10
Dibromodichloromethane 10
β,β-Dibromodiethyl Ether 5
4,4'-Dibromodiphenyl 7
4,4'-Dibromodiphenyl Ether 10
α,β-Dibromoethylene 10
2,5-Dibromohexane 14
5,7-Dibromo-8-hydroxyquinoline 10
Dibromonaphthalene 10
2,4-Dibromo-1-naphthol 10
2,6-Dibromo-4-nitrophenol 10, 20
1,2-Dibromopentane 14
1,4-Dibromopentane 14
2,4-Dibromophenol 10
2,6-Dibromophenol 10
1,1-Dibromo-1-propene 5
2,3-Dibromopropene 10
α,β-Dibromopropionic Acid 10
β,γ-Dibromopropyl Alcohol 10
3,5-Dibromopyridine 10, 20
2,6-Dibromoquinonechloroimide .. 10, 20
α,β-Dibromosuccinic Acid 10
Dibromothymolsulfonephthalein Sodium Salt (Bromthymol Blue Sodium) 10
ar-Dibromotoluene (Mixture of isomers) 7
2,5-Dibromotoluene 10
α,α'-Dibromo-p-Xylene 10
Di-iso-butylamine 10
Di-sec-butylamine 10
Dibutylamine Hydrochloride 10
β-Di-n-butylaminopropyl Alcohol ... 10
γ-Di-n-butylaminopropyl Alcohol ... 10
Di-n-butylaniline 10, 20, 31
p-Di-tert-butylbenzene 10
N,N-Di-n-Butylbenzenesulfonamide .. 35
Di-n-butyl Carbonate 10
Di-iso-butyl Carbonate 10
Dibutyl Chlorophosphate 34
Di-tert-butyl-o-cresol 18
Di-n-butylcyanamide 10
Dibutyldiphenyltin 10
Di-n-butyl Disulfide 10
Di-iso-butyl Disulfide 10
Dibutyl Hydrogen Phosphate 34
2,5-Di-tert-butylhydroquinone ... 10, 33
Di-n-butyl Ketone 10
Di-n-butyl dl-Malate 10
Di-n-butyl Maleate 10
Di-n-butyl Mercury 10
Di-n-butyl Oxalate 10
2,6-Di-tert-butyl-4-methylphenol 10
Di-sec-butylphenol 7
N,N'-Di-sec-butyl-p-phenylenediamine 33
Di-tert-butyl-o-iso-propylphenol 18
2,5-Di-tert-butylquinone 33
Dibutyl Stearamide 31
N-n-Di-iso-butylsuccinamine Acid, Methyl Ester 11
Di-n-butyl Succinate 10, 20
Di-n-butyl Sulfide 10
Di-iso-butyl Sulfide 10
Di-n-butyl Sulfite 10
Di-n-butyl Sulfone 10
Di-n-butyltin Diacetate 10
Di-n-butyltin Dichloride 10
s-Di-n-butylurea 10
Dicapryl Adipate 10
Dicaprylamine 10
Dicetyl 10
Dicetyldimethyl Ammonium Bromide . 24
Dichloramine B 35
s-Dichloracetone 10
2,5-Dichloroacetophenone 10
Dichloroacetyl Chloride 10, 20
2,4-Dichloroaniline 10
2,5-Dichloroaniline-4-sulfonic Acid .. 10
2,4-Dichloroanisole 10, 20
9,10-Dichloroanthracene 10
2,6-Dichlorobenzal Chloride 10
2,6-Dichlorobenzaldehyde 10
m-Dichlorobenzene 10
2,5-Dichlorobenzenesulfonic Acid 10
2,5-Dichlorobenzenesulfonyl Chloride . 10
3,4-Dichlorobenzenesulfonyl Chloride . 10
3,3'-Dichlorobenzidine Sulfate 10
2,4'-Dichlorobenzophenone 7, 10
4,4'-Dichlorobenzophenone 7, 10
6,8-Dichlorobenzoyleneurea 10
2-(3,5-Dichloro-2-biphenylyloxy) ethanol 7
Dichloro(biphenyl) phenyl Ether) ... 7
1,2-Dichlorobutane 5
1,3-Dichlorobutane 5
2,3-Dichlorobutane 5
4,4'-Dichlorobutyl Ether 5
4,4'-Dichloro-2,2'-dinitrodiphenyldisulfide 10
2,3-Dichlorodioxane 10
Dichlorodiphenyltrichloroethane 10
1,2-Dichloro-x-ethylbenzene (Mixture of isomers) 7
ar-Dichloroethylbenzene (Mixture of isomers) 7
β,β'-Dichloroethyl Carbonate 10
α,β-Dichloroethyl Ether 10
1,1-Dichloro-2-fluoro-1-propene 14
Dichlorohexafluorocyclopentene 14
2,5-Dichlorohexane 5
Dichlorohydroquinone 10
5,7-Dichloro-8-hydroxyquinoline 10
6,9-Dichloro-2-methoxyacridine 10
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it's too late

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Methylethylaniline ... 10, 20
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Glacial acrylic acid	2-Ethoxyethyl methacrylate
Glacial methacrylic acid	2-Ethoxyethyl acrylate
Diallyl maleate	Tetrahydrofurfuryl methacrylate
Diallyl oxalate	Vinyl benzoate
Diallyl succinate	Vinyl methacrylate
Diallyl fumarate	N-Vinyl phthalimide
Diallyl adipate	Allyl methacrylate
Cyclohexyl methacrylate	Ethylene glycol dimethacrylate

The above monomers are available in experimental quantities. Other monomers can be synthesized on request.

★ ★ ★ ★ ★ **AMERICAN MONOMER CORPORATION** ★ ★ ★ ★ ★

41 Mt. Vernon Street, Boston, Massachusetts

Methyl Isothiocyanate 10
Methyl Magnesium Iodide (Zerewitinoff Reagent) 1
Methyl Mandelate 20
a-Methyl Mannoside 10
2-Methylmercaptobenzathiazole 10
Methyl o-Methoxybenzoate 10
2-Methyl-1,4-naphthohydroquinone Dipropionate 20
2-Methyl-1,4-naphthoquinone 10
N-Methyl-1-naphthylamine 10
2-Methyl-1-nitroanthraquinone 10
Methyl o-Nitrobenzoate 10
Methyl m-Nitrobenzoate 10
Methyl p-Nitrobenzoate 10
Methyl m-Nitrocinnamate 10
Methyl p-Nitrocinnamate 10
2-Methyl-2-nitro-1,3-propanediol ... 10
2-Methyl-2-nitro-1-propanol 10
Methyl Orthoacetate 10
Methyl Palmitate 10
Methyl Pelargonate 10
2-Methyl-1-pentanol 10
Methyl-p-phenylenediamine Dihydrochloride 10
α-Methyl-α-phenylhydrazine 10
β-Methyl-α-phenylhydrazine Sulfate 10
Methylphenylnitrosoamine 10
Methylphosphoric Acid 10
α-Methylpiperidine 10
Methyl iso-Propenyl Ketone 21
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2-Methyl-5-iso-propylacetophenone ... 10
Methyl Propyl Amine 30
Methyl iso-Propylamine 30
Methyl-iso-propylcarbinol 10, 20
3-Methyl-5-pyrazolone 10
1-Methyl-2-pyridone 10
6-Methylquinoline 10
7-Methylquinoline 10
8-Methylquinoline 10
3-Methyl-iso-quinoline 10
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α-Naphthaleneacetamide 10, 28
α-Naphthaleneacetonitrile 10
Naphthalene-1-sulfonic acid-(4-azo-5)-8-hydroxyquinoline 10
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α-Naphthonitrile 10
β-Naphthoquinaldine 10
β-Naphthoquinoline 10
1,2-Naphthoquinone 10
1,4-Naphthoquinone 10
β-Naphthoylacetonitrile 10
α-Naphthoyl Chloride 10

are
your
research chemicals listed in this section
?
if not, why not send us your list now for inclusion in our next issue
!

β-Naphthoyl Chloride 10
α-Naphthyl Acetate 10
β-Naphthyl Acetate 36
1-Naphthylamine-4,8-disulfonic Acid (Sodium Salt) 10
2-Naphthylamine-4,8-disulfonic Acid . 10
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1-Naphthylamine-5-sulfenic Acid ... 10
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3-Nitro-4-aminotoluene 10
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8-Nitroquinoline 10, 20
2-Nitroresorcinol 10
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5-Nitrosalicylaldehyde 10, 20
3-Nitrosalicylic Acid 10
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Phenoxyacetic Acid 10
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Phenoxyacetyl Chloride 10, 20
o-Phenoxybenzoic Acid 28
γ-Phenoxybutyronitrile 10
β-Phenoxy-β'-chloroethyl Ether 10
2-Phenoxyethyl Acrylate 21
β-Phenoxyethyl Alcohol 10
2-Phenoxyethyl Methacrylate 21
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α-Phenoxypropionyl Chloride 10, 20
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p-Phenylacetophenone 10
Phenylacetyl Chloride 10, 20
N-Phenylanthranilic Acid 10
Phenylarsonic Acid 10
p-Phenylazobenzoyl Chloride 10
Phenyl Benzoate 10
2-Phenylbenzothiazole 10
Phenylbenzylcarbinol 10
3-Phenylbutanol-1 11
α-Phenylbutyramide 10
α-Phenylbutyric Acid 10, 20
γ-Phenylbutyric Acid 10
γ-Phenylbutyronitrile 10
3-Phenylcatechol 7
4-Phenylcatechol 7
Phenyl Chloroacetate 10
Phenyl 4-Chlorobenzenesulfonate 10
Phenylcyclohexane 10, 20
Phenylcyclohexyl Bromide 5
β-Phenyl-a,b-dibromopropionic Acid . 10
Phenyl 3-4-Dichlorobenzenesulfonate . 10
Phenyldichlorosilane 38
m-Phenylenedi-(oxyacetic Acid) 10
2-Phenylethyl Acrylate 21
dl-α-Phenylethylamine 10
β-Phenylethylamine 10
β-Phenylethyl Benzoate 10
α-Phenylethyl Bromide 5, 7, 10
β-Phenylethyl Bromide 7, 10, 14
α-Phenylethyl Chloride 5
β-Phenylethyl Chloride 5, 10
β-Phenylethyl Cinnamate 10
Phenylethylene Oxide 10
Phenylethyl Iodide 10
2-Phenylethyl Methacrylate 21
β-Phenylethyltrichlorosilane 38
Phenylglucosazone 10
N-Phenylglycine 10
N-Phenylglycine Ethyl Ester 10
Phenylhydrazine-p-sulfenic Acid 10
α-Phenylhydrazoquinoline 10
2-Phenylhydroquinone 10
Phenyl 1-Hydroxy-2-naphthoate 10
α-Phenyl-β-(4-hydroxyphenyl)-cinnamic Acid 26
α-Phenyl-β-(4-hydroxyphenyl)-propionic Acid 26
Phenyl Isothiocyanate 10, 20
Phenylmercuric Bromide 10
Phenylmercuric Nitrate 10
dl-Phenylmethylcarbinol 10
Phenyl-α-naphthylamine 10
Phenyl-β-naphthylamine 10
5-Phenyl-1-pentanol 10
p-Phenylphenacyl Bromide 10, 20
p-Phenylphenacyl Chloride 10
N-Phenylphthalimide 10
1-Phenyl-1,2-propanedione Dioxime .. 10
Phenyl Propionate 10
β-Phenylpropionitrile 10
β-Phenylpropionyl Chloride 10
γ-Phenylpropyl Alcohol 10
γ-Phenylpropyl Bromide 10, 14
Phenyl-n-propylcarbinol 10
Phenyl-iso-propylcarbinol 10
γ-Phenylpropyl Chloride 5, 10
6-Phenylquinoline 10
3-Phenylsalicylic Acid 7, 10
5-Phenylsalicylic Acid 7
Phenyl Stearate 10
N'-Phenylsulfanilamide 10
5-Phenylthiohydantoic Acid 10
4-Phenylthiosemicarbazide 10
Phenylthiourea 10, 20
Phenyl p-Toluenesulfonate 10
Phenyl p-Tolyl Ketone 10
Phenyl p-Tolyl Sulfone 10
Phenylundecanoic Acid 10
Phenylurea 10, 20
Phorone 10
iso-Phthalic Acid 10, 20
tere-Phthalic Acid 10
tere-Phthalonitrile 10
α-Picolinic Acid Hydrochloride 10, 19, 20
Picramide 10
Picrolonic Acid 10, 28
Pimelonitrile 10
Pinacol Hydrate 10, 20
Pinacyanole 10
Piperonal 10
Platinum Oxide 19
Polyethylenimine 21
Polypeptides 17
Polypropylene Glycols (Various average molecular weights) 7
Polypropylene Glycol Phenyl Ether (1000 Average molecular weight) .. 7
Polyvinyl Hydrogen Phthalate 10
Potassium Acid Saccharate 6
Potassium-6-benzoyl-2-naphthyl Sulfate 36
Potassium Biiodate 32
Potassium-6-bromo-2-naphthyl Sulfate 36
Potassium iso-Butyrate 20
Potassium Cobalticyanide 4
Potassium 2,4-Dinitrobenzenesulfonate 10
Potassium Dithio-oxalate 10
Potassium Ethyl Sulfate 10, 20
Potassium Hydrogen Phthalate 10
Potassium Hydrogen m-Sulfobenzoate . 10
Potassium Hydrogen p-Sulfobenzoate . 10
Potassium Iodoacetate 10
Potassium Methylsulfate 10
Potassium 3-Nitrophthalimide 10
Potassium 4-Nitrophthalimide 10
Potassium Phthalimide 10, 20
Potassium Rhodizonate 10
Potassium Zinc Sulfate 4
Praseodymium 13
Pregnenolone 2
Propanediol Phosphate 19
iso-Propanolamine 10
Propargyl Acetal 12
iso-Propenyl Acetate 10, 33
2-iso-Propenyl Pyridine 21
Propionamide 10
Propionanilide 10, 20

INDUSTRIAL AND REAGENT CHEMICALS

POTASSIUM COBALTICYANIDE
SODIUM COBALTICYANIDE
CUPROUS THIOCYANATE
CUPRIC THIOCYANATE
LEAD CYANIDE, BASIC
BARIUM CYANIDE
NICKEL CYANIDE

CITY CHEMICAL CORP.
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Propionitrile 10
Propionyl Bromide 10
p-n-Propoxybenzyl Alcohol 11
iso-Propoxydiphenylamine 10
2-iso-Propoxyethyl Acrylate 21
2-iso-Propoxyethyl Methacrylate 21
n-Propylal 10
iso-Propylamine 10
2-iso-Propylaminoethanol 10
n-Propylaniline 10
n-Propylarsonic Acid 10
p-iso-Propylbenzaldehyde 10
N-iso-Propylbenzenesulfonamide 35
n-Propyl Benzenesulfonate 10, 35
iso-Propyl Benzoate 10, 20
p-iso-Propylbenzoic Acid 10
p-iso-Propylbenzyl Alcohol 10
Propyl Butyl Amine 30
n-Propyl n-Butyrate 10
α-iso-Propylcaproic Acid 10
n-Propyl Carbamate 10
n-Propyl a-Chloroacrylate 21
iso-Propyl a-Chloroacrylate 21
n-Propyl Chlorocarbonate 10
α-Propylcinnamic Acid 20
p-iso-Propylcinnamic Acid 10
2-iso-Propyl Cyclohexanol 7
4-iso-Propyl Cyclohexanol 7
Propylene Bromohydrin 10
Propylene Glycol 4-Biphenylyl Ether . 7
Propylene Glycol o-sec-Butylphenyl Ether 7
Propylene Glycol p-sec-Butylphenyl Ether 7
Propylene Glycol p-tert-Butylphenyl Ether 7
Propylene Glycol o-Chlorophenyl Ether 7
Propylene Glycol p-Chlorophenyl Ether 7
Propylene Glycol 2,4-Dichlorophenyl Ether 7
n-Propyl Formate 10, 20
2-n-Propyl-1,3-heptanediol 11
1,1'-iso-Propylidenebis (p-phenyleneoxy)di-propanol 7
n-Propyl Levulinate 10, 20
n-Propyl Mercaptan 10
iso-Propyl Mercaptan 10
iso-Propylphenol (Mixture of ortho and para) 7
n-Propylphenyl Ether 10
n-Propylphosphoric Acid 10
n-Propyl Propionate 10
iso-Propyl Propionate 10, 20
iso-Propyl Salicylate 10
1-n-Propyl-1,2,3,4-tetrahydro-2-napthol 11
n-Propyl p-Toluenesulfonate 10, 20
n-Propyltrichlorosilane 38
Pyrene 10, 11
β-1-Pyrenylpropionic Acid 11
4-Pyridylpyridinium Dichloride 10
Pyrogallol 1,3-Dimethyl Ether 10
Pyrogallol Triacetate 10
Pyrophosphatidic Acid 34
Pyrrole 3, 8, 10
Pyrrolidine 8

Q

Quinaldine Ethiodide 10
Quinaldinic Acid 10
Quinizarin-2-sulfonic Acid (Sodium Salt) 10
6-Quinolinecarboxylic Acid 10
Quinoline Ethiodide 10
Quinolinic Acid 10, 20
2-Quinolylhydrazine 10
3-Quinolylhydrazine 10
Quinonechloroimide 10

R

Raffinose Hydrate 10
Reductic Acid 11
Reductone 11
Reinecke Salt 10, 19
Resacetophenone 10, 20
Resazurin 10
Resorcinol Diacetate 10
Resorcinol Dibenzoate 10
Resorcinol Dibutyl Ether 20
Resorcinol Diethyl Ether 10, 20
Resorcinol Dimethyl Ether 10, 20
Resorcinol Monoethyl Ether 10, 20
Resorcinol Monomethyl Ether ... 10, 20
Resorcylaldoxime 10
Resorufin 10
L-(-)-Rhamnose 6, 10, 28
Rhodanine 10
Rhodinyl Acetate 10
D-(-)-Ribose 10

S

iso-Safrole 10
Salicylacetic Acid 10
Salicylaldoxime 1, 10, 20
Salicylideneacetamide 10
Salicylideneacetone 10
Samarium 13
Sebaconitrile 5
Selenic Acid 4
Selenium Dibutyl Dithiocarbamate .. 31
Silver Arsenate 4
Silver Chromate 4
Silver Citrate 4
Silver Cyanate 4, 10
Silver Permanganate 4
Silver Pyrophosphate 4
Silver Selenate 4
Skatole 10
Sodium N-Acetylnaphthionate 10
Sodium Acrylate 21
Sodium Alizarinsulfonate 10
Sodium Allylsulfonate 10
Sodium 7-Amino-2-naphthalene-sulfonate 10
Sodium 1-Aminonaphthalene-4-azobenzene-p-sulfonate 10
Sodium 2-Aminotoluene-5-sulfonate .. 10
Sodium iso-Amylsulfonate 10
Sodium Anthraquinone-2,7-disulfonate 10
Sodium Anthraquinone-α-sulfonate -.. 10
Sodium Anthraquinone-β-sulfonate .. 10
Sodium m-Benzenedisulfonate 10
Sodium Benzenesulfinate 10
Sodium Benzenoneindo-3'-chlorophenol 10
Sodium Benzenoneindo-2'-methylphenol 10
Sodium Benzenoneindo-2'-methyl-5'-iso-propylphenol 10
Sodium Benzenoneindo-3'-methyl-6'-iso-propylphenol 10
Sodium Benzenoneindophenol 10
Sodium o-Benzoic Sulfimide 10
Sodium Benzyl Succinate 10
Sodium Borophosphate 34
Sodium p-Bromobenzenesulfonate 10
Sodium 2-Bromoethanesulfonate 10
Sodium n-Butylsulfonate 10
Sodium Chloroacetate 10
Sodium p-Chlorobenzenesulfonate 10
Sodium 4-Chloro-o-tolyoxyacetate 7
Sodium 2-Chlorotoluene-4-sulfonate .. 10

Sodium 2-Chlorotoluene-5-sulfonate .. 10
Sodium Cinnamate 10
Sodium 2,6-Dibromobenzenoneindo-3'-bromophenol 10
Sodium 2,6-Dibromobenzenoneindo-3'-methoxyphenol 10
Sodium 2,6-Dibromobenzenoneindo-3'-methylphenol 10
Sodium 2,6-Dibromobenzenoneindophenol 10
Sodium 2,6-Dibromobenzenone-2'-methyl-5'-iso-propylindophenol 10
Sodium 1,2-Dichlorobenzene-4-sulfonate 10
Sodium 2,5-Dichlorobenzenesulfonate . 10
Sodium 2,6-Dichlorobenzenoneindo-3'-chlorophenol 10
Sodium 2,6-Dichlorobenzenoneindo-3'-methylphenol 10
Sodium 2,6-Dichlorobenzenoneindophenol 10
Sodium 2,4-Dichlorophenol-6-sulfonate 10
Sodium m-Diethylaminobenzenesulfonate 10
Sodium Diethyldithiocarbamate .. 10, 20
Sodium 2,4-Dihydroxyazobenzene-4'-sulfonate 10
Sodium 1,8-Dihydroxynaphthalene-3,6-disulfonate 10
Sodium Dihydroxytartrate 10
Sodium Dihydroxytartrate Osazone 10
Sodium p-Dimethylaminoazobenzene-p'carboxylate 10
Sodium Dimethylglyoximate 32
Sodium m-Ethylaminobenzenesulfonate 10
Sodium Formaldehyde Sulfoxylate ... 10
Sodium β-Glycerophosphate 10
Sodium Hippurate 10, 20
Sodium Hydrogen Sulfosalicylate 10
Sodium p-Hydroxyazobenzene-p'-sulfonate 10
Sodium 4-Hydroxybenzaldehyde-3-sulfonate 10
Sodium 2-Hydroxyethanesulfonate ... 35
Sodium p-Hydroxyphenylarsonate 10
Sodium Hydroxypropanesulfonate 35
Sodium Iodoacetate 10
Sodium 4-Methoxybenzaldehyde-3-sulfonate 10
Sodium Naphthalene-b-sulfonate 10
Sodium 1-Naphthol-2-sulfonate 10
Sodium 1-Naphthol-4-sulfonate 10
Sodium 2-Naphthol-7-sulfonate 10
Sodium 2-Naphthoxyacetate 7
Sodium α-Naphthyl Acid Phosphate . 36
Sodium β-Naphthyl Acid Phosphate . 36
Sodium p-Nitrobenzenearsonilate .. 10
Sodium m-Nitrobenzoate 10
Sodium 4-Nitrochlorobenzene-2-sulfonate 10
Sodium 5-Nitro-6-chlorotoluene-3-sulfonate 10
Sodium 4-Nitrodiphenylamine-2-sulfonate 10
Sodium Nitroprusside 10
Sodium 4-Nitrotoluene-2-sulfonate .. 10
Sodium Phenolphthaleindisulfonate ... 10
Sodium Phenolphthalein Phosphate .. 26
Sodium N-Phenyl-1-naphthylamine-8-sulfonate 10
Sodium Picramate 10
Sodium Polyacrylate 21
Sodium Potassium Sulfate 4
Sodium iso-Propylsulfonate 10
Sodium Pyrosulfate 4
Sodium Succinate 10, 20
Sodium Sulfantimoniate 4
Sodium (mono)m-Sulfobenzoate 10
Sodium Taurocholate 36
Sodium Tetrahydronaphthalene-β-sulfonate 10
Sodium p-Toluenesulfinate 10
Sodium Tri-iso-propylnaphthalene-sulfonate 10
Sodium Violurate 10
Sodium Zinc Uranyl Acetate 4
Sorbitol Hexaacetate 10
L-(-)-Sorbose 10
Stannic Bromide 4
Stannic Tartrate 4
Stannous Acetate 4
Stearanilide 10
Stearoyl Chloride 20
Stilbene 20, 25
trans-Stilbene 10
Strontium Perchlorate 32
Styrene Glycol 7
Suberic Acid 5
Succinamide 20
Succinyl Chloride 10
o-Sulfobenzaldehyde Sodium Salt 10
m-Sulfobenzoic Acid 10
o-Sulfobenzoic Anhydride 10
p-Sulfo-o-methoxybenzeneazodimethyl-a-naphthylamine 10
1-p-Sulfophenyl-3-methyl-5-pyrazolone 10
4-Sulfophthalic Anhydride 10
Sulfur Bromide 7
Syringic Acid 10

T

d-Tartaric Acid 10
meso-Tartaric Acid 10
Tartrazine 10
Terbium 13
Terpinyl Acetate 10
1,2,4,5-Tetrabromobenzene 10
1,1,1,2-Tetrabromobutane 5
1,2,3,4-Tetrabromobutane 5
2,2,3,3-Tetrabromobutane 5
Tetrabromo-o-cresol 10
Tetrabromo-m-cresolsulfonphthalein .. 10
Tetrabromoethylene 5
Tetrabromofluorescein Sodium Salt ... 10
Tetrabromophenolphthalein 10
Tetrabromophenolsulfonephthalein Sodium Salt 10
Tetrabromophenolsulfonphthalein 10
Tetrabromophthalic Anhydride 10
1,1,1,2-Tetrabromopropane 5
1,1,2,2-Tetrabromopropane 5
1,2,2,3-Tetrabromopropane 5
Tetra-n-butylammonium Iodide .. 10, 22
Tetra-n-butylammonium Picrate 22
Tetra-iso-butylene 10
Tetrabutylthiuram Disulfide 31
Tetracetylammonium Bromide 24
Tetrachlorocatechol 10
1,1,2,2-Tetrachloro-1-fluoroethane ... 8
Tetrachlorohydroquinone 10
Tetrachlorophthalic Anhydride 10
1,1,2,3-Tetrachloropropane 14
1,2,2,3-Tetrachloropropane 14
n-Tetradecane 10
n-Tetradecyl-1-sulfonic Acid 20
Tetraethylammonium Bromide 7, 10
Tetraethylammonium Hydroxide 10
p,p'-Tetraethyldiaminobenzophenone .. 10
Tetraethylene Glycol Dimethyl Ether . 10
1,1,1,2-Tetrafluoro-3,3-dichloropropane 14
1,1,1,3-Tetrafluoro-2,3-dichloropropene 14
1,1,3,3-Tetrafluorotetrachloropropane . 14
1,2,3,4-Tetrahydrocarbazole 10
Tetrahydrofurfuryl Acetate 10, 20
Tetrahydrofurfuryl Acrylate 21
Tetrahydrofurfuryl Adipate 10
Tetrahydrofurfuryl Benzoate 10
Tetrahydrofurfuryl Methacrylate 21
Tetrahydrofurfuryl Palmitate 10
Tetrahydrofurfuryl Propionate 10
cis-Δ4-Tetrahydrophthalic Acid .. 10, 21
cis-Δ4-Tetrahydrophthalic Anhydride 10, 21
Tetrahydropyran 14
1,2,3,4-Tetrahydroquinoline 10
Tetraiodofluorescein (Iodeosin) 10
Tetraiodophthalic Anhydride 10
Tetramethylammonium Bromide 10
Tetramethylammonium Chloride 10
Tetramethylammonium Hydroxide 10
Tetramethylammonium Iodide 10
1,2,4,5-Tetramethylbenzene 11
Tetramethylbenzidine 10
p,p'-Tetramethyldiaminobenzophenone . 10
p,p'Tetramethyldiaminodiphenylmethane 10
4,4'-Tetramethyldiamine-4$''$-hydroxytriphenylmethane 10
4,4'-Tetramethyldiaminotriphenylmethane 10
Tetramethylene Bromohydrin 20
Tetramethylhematoxylin 10
3,5,6,8-Tetramethyl-1,10-phenanthroline Monohydrate 10
Tetramethyl-p-phenylenediamine Dihydrochloride 10
2,4,5,6-Tetraminopyrimidine 6
2,2',4,4'-Tetranitrodiphenyl 10
2,2',4,4'-Tetranitrodiphenyl Disulfide 10
Tetra-n-propylammonium Hydroxide .. 10
Tetra-n-propylammonium Iodide 10
Tetrazotized Diorthoanisidine 36
Thallic Hydroxide 4
Thallic Oxide 4
Thallium Carbonate 4
Thallium Malonate 3
Thallium Oxide 13
Thallous Malonate 4, 10
Thallous Nitrate 4
Thiamine Hydrochloride 10
Thianthrene 10
2-Thiazolidinethione 10
Thioacetamide 10
Thioacetanilide 10
Thioacetic Acid 1, 10
2-Thiobarbituric Acid 10, 20
Thiobenzanilide 10
o-Thiocresol 10
m-Thiocresol 10
p-Thiocresol 10, 20

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- NITROGEN COMPOUNDS OF ALL TYPES

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Thio-b-naphthol 10
Thionin 10
Thiophene-2-carboxylic Acid 1
Thiophenol 10, 20
Thiophosphoryl Chloride 10
dl-Threonine 10, 28
Thulium 13
Thymine 19
Thymoquinone 10, 20
Tigladehyde 10
Tolane (Diphenylacetylene) 25
o-Tolidine-2,2'-disulfonic Acid 10
o-Tolidine Hydrochloride 20
o-Tolualdehyde 10
o-Toluamide 10
p-Toluamide 10
Toluene-3,4-dithiol 9
p-Toluenesulfonylanilide 10
p-Toluenesulfonyl-n-butylamide 10
a-Toluenesulfonyl Chloride 10
o-Toluenesulfonyl Chloride 10
p-Toluenesulfonyl Chloride 10
p-Toluenesulfonyldimethylamide 10
p-Toluenesulfonylethylamide 10
p-Toluenesulfonylmethylamide 10
p-Toluenesulfonylmethylanilide 10
p-Toluenesulfonylmethyl-p-toluidide .. 10
p-Toluenesulfonyl-p-toluidide 10
Toluhydroquinone 10
o-Tolunitrile 10, 20
m-Tolunitrile 10, 20
p-Tolunitrile 10, 20
Tolu-p-quinone 10
p-Tolyl Acetate 10
o-Tolyl-b-hydroxypropylamine 33
o-Tolyl Isocyanate 10
m-Tolyl Isocyanate 10
p-Tolyl Isocyanate 10, 20
p-Tolylmercuric Chloride 10
p-Tolylsemicarbazide 20
m-Tolylurea 10
p-Tolylurea 10
1,2,4-Triaminobenzene Dihydrochloride 10
Tri-iso-amylamine 10
Tri-n-amyl Borate 10
Tribenzylamine 10, 20
2,4,6-Tribromoaniline 10
2,4,6-Tribromoanisole 10
1,2,4-Tribromobenzene 7
1,3,5-Tribromobenzene 10
1,1,2-Tribromobutane 5
1,2,2-Tribromobutane 5
1,2,3-Tribromobutane 7, 10
2,3,3-Tribromobutane 5
Tribromochloromethane 7
1,1,2-Tribromoethane 7, 10
Tribromoethylene 5, 10
1,2,3-Tribromo-2-methylpropane 10
Tribromo-b-naphthol 10
2,4,6-Tribromophenyl-p-toluenesulfonate 10
1,1,2-Tribromopropane 5
1,2,2-Tribromopropane 5
1,2,3-Tribromopropane 7, 10, 14
Tri-n-butyl Orthoformate 10
Tri-2-butylphenylyl Phosphate 7
Tri-n-butyrin 10, 33
Tricaproin 10
Tricaprylin 10
Tricarballylic Acid 10, 20
Tricetyl Methylammonium Bromide ... 24
Trichloroacetamide 10
Trichloroacetyl Chloride 10
2,4,6-Trichloroaniline 10
2,4,5-Trichlorobenzenesulfonic Acid .. 12
Trichloro-tert-butyl Alcohol 10
1,2,2-Trichloro-1,1-difluoroethane 5
1,1,2-Trichloro-1-fluoroethane 5
2,4,6-Trichlorophenol 10
(2,4,6-Trichlorophenyl)hydrazine ... 10
1,1,2-Trichloro-1-propene 14
2,2,3-Trichloropropionitrile 10
Trichlorosilane 38
Tri-o-cresyl Phosphate 10
Tri-p-cresyl Phosphate 10
Tri-p-cresyl Phosphite 10
Tri-o-cresyl Thiophosphate 10
Tri-m-cresyl Thiophosphate 10
Tri-p-cresyl Thiophosphate 10
n-Tridecyl Alcohol 5
n-Tridecyl Bromide 5
Tridecylic Acid 5, 10
n-Tridecyl Mercaptan 5
2,4,6-Tri(dimethylamino-methyl)phenol 29
Triethanolamine Hydrochloride 10
Triethoxysilane 38
Triethylamine Hydrobromide 10
Triethylcarbinol 10
Triethyl Citrate 10
Triethylene Glycol Diacetate 10
Triethylene Glycol Dipropionate 10
Triethyl Orthoacetate 10
Triethyl Orthoformate 10
Triethyl Orthopropionate 10
α-α-α-Trifluoro-m-nitrotoluene 10
1,1,1-Trifluoro-2,3-dichloropropene .. 14
1,1,1-Trifluoro-2,3,3-trichloropropene 14
Triheptylamine 10
2,3,5-Triiodobenzoic Acid 10
2,4,6-Triiodophenol 10
Trilaurin 10
Trimesic Acid 10
3,4,5-Trimethoxybenzoic Acid ... 10, 20
Trimethylacetic Acid (Pivalic Acid) 5, 10
Trimethylamine Hydrochloride 10
Trimethylamine α-α'-α''-Tricarboxylic Acid 10
Trimethylene Bromohydrin 10, 20
Trimethylene Chlorohydrin 10, 20
Trimethylene Diacetate 10
Trimethylene Dibutyrate 10
Trimethylene Iodide 10
2,2,5-Trimethylhexane 27
3,5,5-Trimethylhexanoic Acid 10
3,5,5-Trimethyl-1-hexanol 10
3,5,5-Trimethylhexylamine 10
3,5,5-Trimethylhexyl Bromide 14
Trimethyl Orthoacetate 10
Trimethyl Orthopropionate 10
Trimethyl Ortho-n-valerate 10
2,2,4-Trimethylpentane 10, 27
2,4,4-Trimethylpentene-1 27
2,3,5-Trimethylphenol 10
Trimethylphenylammonium Chloride .. 10
Trimethylphenylammonium Hydroxide . 10
Trimethylphenylammonium Iodide 10
Trimyristin 10
2,4,6-Trinitroanisole 10
1,3,5-Trinitrobenzene 10
2,4,6-Trinitrobenzoic Acid 10
2,4,6-Trinitro-m-cresol 10
2,4,6-Trinitro-1,3-dimethyl-5-tert-butylbenzene 10
2,4,7-Trinitrofluorenone 36
1,3,8-Trinitronaphthalene 10
2,4,6-Trinitroresorcinol 10
Tripalmitin 10
Triphenylamine 10
Triphenylarsine 10
Triphenylbismuthine 10
Triphenylcarbinol 10
Triphenylchloroethylene 6
Triphenylchloromethane 10
Triphenylmethane 10
Tri-o-phenylphenyl Phosphate 10
Triphenylphosphine 10
Triphenylstibine 10
Triphenylstibine Dichloride 10
2,3,5-Triphenyltetrazolium Chloride .. 26
Triphenyl Thiophosphate 10

Tripheneyltin Chloride 10
Tripotassium Nitrophenoldisulfonate .. 10
Tri-iso-propanolamine 10
Tripropionin 10
Tri-n-propylamine 10
Tri-iso-propyl Toluene (Mixture of isomers) 7
2,2',2''-Tripyridyl 32
Trisodium p-Periodate 32
Tristearin 10
Trithiomethylene 10
Tri-p-tolyrosaniline Hydrochloride .. 10
Tri-n-valerin 10
Tri-iso-valerin 10
α-Truxene (α-Tribenzylene Benzene) 11
β-Truxene 11
Tryptamine Hydrochloride 10
L-(-)-Tryptophane 10
Tyramine Hydrochloride 10, 19
L-(-)-Tyrosine 10
Tyrosine Ethyl Ester 10

U

Undecanone-6 30
Undecanonitrile 10
Uramil 10, 19
Uranium Zinc Sodium Acetate 15
Urea Oxalate 10
Uralic Acid 10

V

n-Valeraldehyde 10, 11
iso-Valeraldehyde 10, 11
n-Valeramide 10
iso-Valeramide 10
iso-Valeranilide 10
Valeric Anhydride 10
γ-Valerolactone 10
n-Valeronitrile 10
Valerophenone 10
iso-Valerophenone 10
n-Valeryl Bromide 10
iso-Valeryl Bromide 10
n-Valeryl Chloride 10
iso-Valeryl Chloride 10, 20
Vanillalacetone 10
Vanillyl Alcohol 10
Vinylacetonitrile 10
Vinyl Benzoate 21
o-Vinylbiphenyl 21
m-Vinylbiphenyl 21
p-Vinylbiphenyl 21
Vinyl Butyrate 21
Vinyl Chloroacetate 21
1-Vinylcyclo-3-hexene 21
2-Vinyldibenzofuran 21
2-Vinylfluorene 21
2-Vinylfurane 21
Vinyl Methacrylate 21
Vinyl Myristate 21
α-Vinyl Naphthalene 21
β-Vinyl Naphthalene 21
Vinyl Oleate 21
Vinyl Palmitate 21
N-Vinylphthalimide 21
Vinyl Propionate 21
2-Vinyl Quinoline 21
Vinyl Stearate 21
6-Vinyl 1,2,3,4-Tetrahydronaphthalene 21
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Yttrium 13
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Zinc Thiocyanate 33

Research Chemical Manufacturers

Key Number	Company
1.	Arapahoe Chemicals, Inc., 2800 Pearl St., Boulder, Colo.
2.	Biorganic Laboratories, Inc, 261-263 Norman Ave., Brooklyn, N. Y.
3.	Chemical Commerce, 470 Avon Ave., Newark, N. J.
4.	City Chemical Corporation, 132 West 22nd St., New York, N. Y.
5.	Columbia Organic Chemicals Co., Inc., 600 Capitol Place, Columbia, S. C.
6.	Concord Laboratories, 292 Main St., Cambridge, Mass.
7.	The Dow Chemical Company, Midland, Michigan
8.	E. I. du Pont de Nemours and Company, Inc., (Electrochemicals Dept.), Wilmington, Del.
9.	Eastern Chemical Corporation, 34 Spring St., Newark, N. J.
10.	Distillation Products Industries, Division of Eastman Kodak Company, Rochester, N. Y.
11.	Edcan Laboratories; 10-20 Pine St., South Norwalk, Conn.
12.	Farchan Research Laboratories, 609 East 127th St., Cleveland, Ohio
13.	Fordomes Trading Company, 21 Lafayette Place, Arlington, N. J.
14.	Halogen Chemicals, Inc., 616 King St., Columbia, S. C.
15.	Hartman-Leddon Company, Inc., 5819-21 Market St., Philadelphia, Pa.
16.	Hooker Electrochemical Company, Niagara Falls, N. Y.
17.	Jorala Products Company, 894 Whittier St., Bronx, N. Y.
18.	Koppers Company, Inc., Chemical Division, Koppers bldg., Pittsburgh, Pa.
19.	Krishell Laboratories, Inc., 1735 S. E. Powell Blvd., Portland, Ore.
20.	The Matheson Co., Inc., Paragon Division, East Rutherford, N. J.
21.	Monomer-Polymer, Inc., 3430 W. Henderson St., Chicago, Ill.
22.	Neo-Chemical Products Company, 1397 Brys Drive, Grosse Point, Mich.
23.	The Neville Company, 190 Neville Island, Pittsburgh, Pa.
24.	Onyx Oil and Chemical Company, 190 Warren St., Jersey City, N. J.
25.	Organic Specialties, Inc., 109 Fifth Ave., Paterson, N. J.
26.	Paul, Lewis Laboratories, Inc., 4253 N. Port Washington Road, Milwaukee, Wis.
27.	Phillips Petroleum Co., Chemical Products Dept., Bartlesville, Okla.
28.	R.S.A. Corporation, Ardsley, N. Y.
29.	Rohm and Haas Company, Washington Square, Philadelphia, Pa.
30.	Sapon Laboratories, Inc., 543 Union St., Brooklyn, N. Y.
31.	Sharples Chemicals, Inc., 123 South Broad St., Philadelphia, Pa.
32.	The G. Frederick Smith Chemical Company, 867 McKinley Ave., Columbus, Ohio
33.	Tennessee Eastman Corporation, 10 E. 40th St., New York, N. Y.
34.	Victor Chemical Works, 141 W. Jackson Blvd., Chicago, Ill.
35.	Wyandotte Chemicals Corp., 1219 Dime bldg., Detroit, Mich.
36.	Dajac Laboratories (Div of Monomer-Polymer, Inc.), 3430 W. Henderson St., Chicago, Ill.
37.	Corn Products Refining Company, 17 Battery Place, New York, N. Y.
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Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Composition Materials Co, Inc, 28 W 44 St, N Y — Bryant 9-3277
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Prince Mfg Co, Lehigh St, Bowmanstown, Pa — Palmerton 3172

Buckingham Prods Co, Detroit, Mich
Carborundum Co, Niagara Falls, N Y
Exolon Co, Tonawanda, N Y
Fay-Cole & Co, Inc, Boston, Mass
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Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000

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Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
General Magnesite & Magnesia Co, P O Box 671, Norristown, Pa — Plymouth Meeting 2880
Gross, A, & Co, 295 Madison Av, N Y — Murray Hill 3-8250
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
★Monsanto Chem Co, Rubber Service Dept, 920 Brown St, Akron, O
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

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Zimser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

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Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hercules Powder Co, 975 Market St, Wilmington, Del
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970

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General Magnesite & Magnesia Co, P O Box 671, Norristown, Pa — Plymouth Meeting 2880
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175

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Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Goodrich, B F, Chem Co, Cleveland, O

ADDITIVES, LUBRICANT

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
★Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Hercules Powder Co, 978 Market St, Wilmington, Del — Cortlandt 7-5803
Innis, Speiden & Co, 117 Liberty St, N Y — Devonshire 8-0800
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Digby 4-3878
Michel, M, & Co, Inc, 90 Broad St, N Y — Main 4000
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Everett 7-5010
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Ohio-Apex Inc, Nitro, W Va — Nitro 152
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310
Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Harrison 7-3541
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Acheson Colloids Corp, Port Huron, Mich
Colloids Inc, Newark, N J — Irvington Varnish & Insulator Co, Irvington, N J
Hollingshead, R M, Corp, Camden, N J — Zip Prods Co, Los Angeles, Calif

ADDITIVES, WAX

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y — South 8-1717
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010

Cosmetic Mfg Supply Co, Chicago, Ill — Hollingshead, R M, Corp, Camden, N J
Ever-Plastics Corp, N Y

ADHESIVE BASES

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Hercules Powder Co, 978 Market St, Wilmington, Del
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Neville Co, 19C Neville Island, Pittsburgh, Pa — Federal 1-4200
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243

Colloids Inc, Newark, N J — Midland Glue Prods Co, Inc, Detroit, Mich
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Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
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★Monsanto Chem Co, Plastics Div, Springfield, Mass	Springfield 8371
★Monsanto Chem Co, Western Div, 911 Western Av, Seattle, Wash	Ma 4203
Morningstar Nicol, Inc, 630 W 51 St, N Y	Columbus 5-2860
National Casein Sales, 601-619 W 80 St, Chicago, Ill	Vincennes 6-7300
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill	Canal 6-2219
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa	Market 7-7200
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Saureisen Cements Co, Saureisen Bldg, Sharpsburg, Pa	Sterling 1-2323
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
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Adhesive Prods Corp, N Y
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Arabol Mfg Co, N Y
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Haviland Prods Co, Grand Rapids, Mich
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Hoyt, Arthur S, Co, Inc, N Y
Hughes Glue Co, Detroit, Mich
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Kem Prods Co, Inc, Newark, N J
Kepec Chem Corp, Milwaukee, Wis
Knefler Bates Co, Indianapolis, Ind
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Marblette Corp, Long Is City, N Y
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Marstin Adhesive Co, Wollaston, Mass
Midland Glue Prods Co, Inc, Detroit, Mich
Minnesota Mining & Mfg Co, Detroit, Mich
Montgomery Bros Inc, Phila, Pa
Nor-Ed Chem Co, Yorkshire, N Y
Pecora Paint Co, Inc, Phila, Pa
Polymer Chem Co, Cincinnati, O
Pomeroy, I, Co, Newark, N J
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Safran Chem & Supply Co, Lynn, Mass
Scriptex Prods Co, Phila, Pa
Slomons Labs Inc, Long Is City, N Y
Specialty Resins Co, Lynwood, Calif
Standard Glue Co, N Y
Standard Paste & Glue Co, Inc, Chicago, Ill
Stiktotin Co, N Y
Swift & Co, Chicago, Ill
Thompson, H, Co, Los Angeles, Calif
Union Bay State Co, Inc, Cambridge, Mass

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Johns-Manville, 22 E 40 St, N Y	Lexington 2-7600
Saureisen Cements Co, Saureisen Bldg, Sharpsburg, Pa	Sterling 1-2323
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Davison Chem Corp, 101 N Charles St, Baltimore, Md	Saratoga 3900
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Floridin Co, Warren, Pa	329
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Johns-Manville, 22 E 40 St, N Y	Lexington 2-7600
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif	Twinoaks 3-4600
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Chem Process Co, Redwood City, Calif	Western Michigan Chem Co, Muskegon, Mich

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Attapulgus Clay Co, 210 W Washington Sq, Phila, Pa	Walnut 2-5720
Floridin Co, Warren, Pa	329
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
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Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa	Atlantic 1-4545
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Davison Chem Corp, 101 N Charles St, Baltimore, Md	Saratoga 3900
Dow Chem Co, Midland, Mich	Midland 500
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600

ALKALI, INDUSTRIAL

Amer Agricultural Chem Co, 50 Church St, N Y	Barclay 7-1400
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0995
Cowles Chem Co, 7016 Euclid Av, Cleveland, O	Henderson 1-3400
Dennis, Martin, Co, 859 Summer Av, Newark, N J	Humboldt 3-2874
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
Dow Chem Co, Midland, Mich	Midland 500
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Harshaw Chem Co, 1945 E 97 St, Cleveland, O	Cedar 1-6300
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif	Twinoaks 3-4600
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y	Barclay 7-9760
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J	Hackensack 3-0412
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8500
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa	Market 7-7200
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2810
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
Mertz, L Carlton, Co, Chicago, Ill	Nelson Chems Corp, Detroit, Mich
Miller Chem Co, Omaha, Nebr	Patek & Co, San Fran, Calif
Neilson Chem Co, Detroit, Mich	Robins, G S, & Co, St Louis, Mo

ANALYTICAL REAGENTS, SPECIAL

Arapahoe Chems Inc, 2800 Pearl St, Boulder, Colo	613
Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa	Allegheny 4-8832
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343
Bersworth Chem Co, Framingham, Mass	Kocour Co, Chicago, Ill
Buromin Co, Pittsburgh, Pa	Machlett, E, & Son, N Y
Eastern Chem Corp, Newark, N J	

ANTHELMINTICS

Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
RSA Corp, 690 Sawmill River Rd, Ardsley, N Y	Dobbs Ferry 3-1818

ANTI-CAKING AIDS

Products which are added to various materials to keep hydroscopic materials free flowing.

Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
Attapulgus Clay Co, 210 W Washington Sq, Phila, Pa	Walnut 2-5720
Davison Chem Corp, 101 N Charles St, Baltimore, Md	Saratoga 3900

★See ad in Catalog Section

ANTI-CAKING AIDS (cont'd)

Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Harrison 7-3541
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Dicalite Div, Los Angeles, Calif

ANTI-CARBONIZING COMPOUNDS

Preparations used to cover tools, machinery parts, etc., to protect them when being subjected to carbonizing treatment to increase the hardness.

Saureisen Cements Co, Saureisen Bldg, Sharpsburg, Pa — Sterling 1-2323

ANTI-CORROSION AGENTS, BRINE

Compounds specially formulated for removing rust and scale in the coils of ammonia-sodium chloride or calcium chloride refrigerating systems.

Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176

Alox Corp, Niagara Falls, N Y
Chem Engineering Co, Dallas, Texas
Feedwaters Inc, N Y
Flexoid Prods, Inc, Boston, Mass
Superior Chem Wks, Louisville, Ky
Wasco Eng Corp, N Y

ANTI-FELTING AGENTS

Products to minimize the felting of worsted materials and woolens, both piece goods and hanks, especially when chrome dyes are employed.

Aktivin Div, Heyden Chem Corp, 393 7 av, N Y — Pennsylvania 6-9000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100

Foster Finishing Prods Co, Phila, Pa

ANTI-FOAMING COMPOUNDS

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Hercules Powder Co, 978 Market St, Wilmington, Del
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Mearl Corp, 153 Waverly Pl, N Y — Chelsea 2-3680
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
★Monsante Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Harrison 7-3541
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Chem Engineering Co, Dallas, Texas
Cosmetic Mfg Supply Co, Chicago, Ill
Natl Aluminate Corp, Chicago, Ill

ANTI-FREEZE, ALCOHOL

C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
United Distillers of Amer Inc, 350 5 Av, N Y — Lackawanna 4-3570
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Randall Prods Mfg Co, N Y
Thompson Chem Co, Pawtucket, R I
Warren-Douglas Chem Co, Inc, Omaha, Nebr
Western Michigan Chem Co, Muskegon, Mich

ANTI-FREEZE GLYCOL

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
★Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962

ANTI-FREEZE GLYCOL (cont'd)

National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
United Distillers of Amer Inc, 350 5 Av, N Y — Lackawanna 4-3570
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Randall Prods Mfg Co, N Y
Thompson Chem Co, Pawtucket, R I
Warren-Douglas Chem Co, Inc, Omaha, Nebr

ANTI-FREEZE, MASONRY

Compounds added to concrete, mortar, etc., to accelerate the setting of the batch in cold weather, quantity used being dependent upon the temperature at which the work is being done.

Dow Chem Co, Midland, Mich — Midland 500

Amer Fluresit Co, Cincinnati, O

ANTI-FROTHING AGENTS, PAPER

Products which are added in the beaters to prevent froth from forming, insuring a finished paper free from unevenness. Anti-froth oils, such as pine oil, sulfonated castor oil, etc., are used to eliminate foaming of the coating mixture, thereby preventing pin-holes in the coating.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hercules Powder Co, 978 Market St, Wilmington, Del
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

ANTI-FROTHING AGENTS TEXTILE

Preparations which prevent or reduce foaming in connection with the application of textile sizes and finishes, thereby improving the appearance, wearing qualities, etc., of the finished materials.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Harrison 7-3541
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

ANTI-OXIDANTS

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Lecithin Co, Inc, 57-01 32 Av, Woodside, N Y — Astoria 4-4350
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
★Monsante Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200

IONOL*
—an antioxidant
*Trade Mark Registered
U. S. Pat. Office
SHELL CHEMICAL CORPORATION
500 Fifth Avenue, New York 18
100 Bush Street, San Francisco 6
Los Angeles • Houston • St. Louis • Chicago • Cleveland • Boston • Detroit • Newark

★See ad in Catalog Section

ANTI-OXIDANTS (cont'd)

Ross & Rowe, Inc, 50 Bway, N Y	Whitehall 3-7295
Sharples Chems Inc, Phila, Pa	Kingsley 5-2802
Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Sindar Corp, 330 W 42 St, N Y	Longacre 4-8750
Sterwin Chems, Inc, 1450 Bway, N Y	
★Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957
Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864
Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y	Hastings 5-3000

Associated Concentrates Inc, Woodside, NY Dehls & Stein, Inc, Newark, N J

ANTIOXIDANTS
FOR LATEX AND RUBBER

S. C. R.—STABILITE
STABILITE ALBA
STABILITE WHITE

The C. P. Hall *Co.*

CHEMICAL MANUFACTURERS

Akron • Los Angeles • Chicago

ANTI-OXIDANTS, GASOLINE

Substances added in small quantities to gasoline to prevent gum formation, anti-knock depreciation, and color loss.

Amer Lecithin Co, Inc, 57-01 32 Av, Woodside, N Y	Astoria 4-4350
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Ross & Rowe, Inc, 50 Bway, N Y	Whitehall 3-7295
Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864
Irvington Varnish & Insulator Co, Irvington, N J	

ANTI-OXIDANTS, OIL

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Lecithin Co, Inc, 57-01 32 Av, Woodside, N Y	Astoria 4-4350
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Fine Organics, Inc, 211 E 19 St, N Y	Gramercy 5-1030
Goldschmidt Chem Corp, 153 Waverly Pl, N Y	Chelsea 3-4792
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Ross & Rowe, Inc, 50 Bway, N Y	Whitehall 3-7295
Sindar Corp, 330 W 42 St, N Y	Longacre 4-8750
★Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957

ANTI-OXIDANTS, RUBBER

Compounds prepared to preserve rubber goods against the destructive effect of oxygen on vulcanized articles.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
★Monsanto Chem Co, Rubber Service Dept, 920 Brown St, Akron, O	
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2240
Oronite Chem Co, 38 Sansome St, San Fran, Calif	Exbrook 2-0923
Sindar Corp, 330 W 42 St, N Y	Longacre 4-8750
Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Goodrich, B F, Chem Co, Cleveland, O	

ANTI-OXIDANTS, SOAP

Goldschmidt Chem Corp, 153 Waverly Pl, N Y	Chelsea 3-4792
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2240
Sindar Corp, 330 W 42 St, N Y	Longacre 4-8750

ANTI-RUBBING AGENTS, TEXTILE

Maher Color & Chem Co, 355 W Ontario, Chicago, Ill	Superior 7-8432

ANTI-RUSTING COMPOUNDS

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass	Peabody 2222
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5725
Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Doe & Ingalls Inc, 36 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del	Wilmington 4-5121

MONSANTO CHEMICALS
for the Rubber Industry

Antioxidants

Flectol* H (Condensation product of acetone and aniline)

Santoflex* B (Reaction product of acetone and para-aminobiphenyl)

Santoflex BX (Constant composition blend of Santoflex B and N,N'-Diphenyl-para-phenylenediamine)

Santoflex 35 (Same composition as Santoflex BX but with higher N,N'-Diphenyl-para-phenylenediamine content)

Santowhite MK (An alkylated phenol sulfide) (Liquid)

Santowhite Crystals (An alkylated phenol sulfide) (Crystalline powder)

Thiazole Accelerators

Santocure* (N-Cyclohexyl-2-benzothiazole-sulfenamide)

El-Sixty* (Di-benzothiazyl-dimethylthiol-urea)

Mertax (2-Mercaptobenzothiazole) (purified)

Ureka* Base (2,4-dinitrophenyl thiobenzothiazole)

Ureka C (Benzothiazyl thiobenzoate)

Thiotax (2-Mercaptobenzothiazole)

Thiolide* (Benzothiazyl disulfide)

Aldehyde Amine Accelerators

A-32 (Reaction product of butyraldehyde and butylidene aniline)

A-77* (Condensation product of acetaldehyde and aniline)

A-100 (Aldehyde derivative of a Schiff's base made with use of both butyraldehyde and acetaldehyde)

Guanidine Accelerators

DPG (Diphenylguanidine)

Guantel* (Reaction product of diphenylguanidine and phthalic acid)

Ultra Accelerators for Latex, Etc.

B-2 Crystals (Reaction product of carbon bisulfide with methylene dipiperidine)

Pip Pip (Piperidine N-Pentamethylene-dithiocarbamate)

Ethyl Thiurad* (Tetraethyl-thiuram-disulfide)

Mono Thiurad (Tetramethyl-thiuram-monosulfide)

Thiurad (Tetramethyl-thiuram-disulfide)

Methasan* (Zinc salt of dimethyl dithiocarbamic acid)

Ethasan* (Zinc salt of diethyl dithiocarbamic acid)

Butasan* (Zinc salt of dibutyl dithiocarbamic acid)

Special Materials

A-1 (Thiocarbanilidine) **Insoluble Sulfur 60**

Retarder ASA

Santovar* A (An alkylated polyhydroxy phenol)

Santovar O (An alkylated polyhydroxy phenol)

Also Colors, Reodorants, Wetting Agents and Plasticizers

For prices, samples, further information or technical assistance, inquire: MONSANTO CHEMICAL COMPANY, Rubber Service Department, Akron 11, Ohio.

*Reg. U. S. Pat. Off.

MONSANTO
CHEMICALS—PLASTICS

SERVING INDUSTRY . . . WHICH SERVES MANKIND

★See ad in Catalog Section

ANTI-RUSTING COMPOUNDS (cont'd)

Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Alox Corp, Niagara Falls, N Y
Amer Lanoline Corp, Lawrence, Mass
Doyle, James W, Corp, Detroit, Mich
Enthone, Inc, New Haven, Conn
Haviland Prods Co, Grand Rapids, Mich
Superior Chem Wks, Louisville, Ky

ANTI-SKINNING AGENTS, PAINTS

Products which added to paint or varnish eliminate or reduce skinning, the formation of a film of drying oil and aid in keeping the paint or varnish in a liquid state.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Hercules Powder Co, 978 Market St, Wilmington, Del
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Pan Amer Refg Corp, 122 E 42 St, N Y — Lexington 2-4322
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
★Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

Colledge, E W, GSA, Inc, Jacksonville, Fla

ANTI-SOFTENERS, RUBBER

Preparations added to the rubber batch to decrease or correct the plasticity of the batch.

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Hardman, H V, Co, Inc, Belleville, N J

ANTI-SOOT COMPOUNDS

Compounds which react when contacting hot coals, fire, etc., destroying and removing soot in flues, pipes, chimneys. Often used in stoves and furnaces, to increase efficiency.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Callahan, Geo, & Co, Inc, Closter, N J
Natl Aluminate Corp, Chicago, Ill
Smith, E W, Chem Co, Los Angeles, Calif
Superior Chem Wks, Louisville, Ky
Wasco Eng Corp, N Y

ANTI-SWELLING AGENTS, RUBBER

Products added in small quantities which limits the swelling of milled rubber by decreasing the plasticity. Among the substances employed are aromatic diamines, strong alkalies, etc.

National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

ASPHALT EMULSIONS

A liquid mixture in which asphalt is held in suspension in water or a watery solution and principally used in waterproofing.

Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

Adell Chem Co, Holyoke, Mass
Amer Lignite Prods Co, Ione, Calif
Armstrong Paint & Varnish Wks, Chicago, Ill
Asphalt Emulsion Service Inc, N Y
Cereuit Waterproofing Corp, Chicago, Ill
Horn, A C, Co, Inc, Long Is City, N Y
Rubba Inc, N Y
Ruton, Ralph V, Inc, Phila, Pa
Tamms Silica Co, Chicago, Ill

ASSISTANTS, BLEACHING

Concentrated compounds added to chlorine and peroxide bleaching baths to accelerate the bleaching process and to afford protection to the fibre.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Attapulgus Clay Co, 210 W Washington Sq, Phila, Pa — Walnut 2-5720
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 7000
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

ASSISTANTS, BLEACHING (cont'd)

Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Bersworth Chem Co, Framingham, Mass
Continental Chem Co, Passaic, N J
Leatex Chem Co, Phila, Pa

ASSISTANTS, KIER

Specially formulated compounds to remove and emulsify the natural oils and waxes on the cotton fibre thereby producing a clean and absorbent yarn or fabric.

Aktivin Div, Heyden Chem Corp, 393 7 av, N Y — Pennsylvania 6-9000
Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Bersworth Chem Co, Framingham, Mass
Colloids Inc, Newark, N J
Continental Chem Co, Passaic, N J
Eastern Color & Chem Co, Providence, R I
Foster Finishing Prods Co, Phila, Pa
Hart Prods Corp, N Y
Kearny Mfg Co, Inc, Kearny, N J
Leatex Chem Co, Phila, Pa
Titan Chem Prods Inc, Jersey City, N J

ASSISTANTS, MERCERIZING

Wetting out agents which assist in obtaining a more uniform, intimate contact between the mercerizing agent and the cotton goods.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Bersworth Chem Co, Framingham, Mass
Commonwealth Color & Chem Co, N Y
Hart Prods Corp, N Y
Kearny Mfg Co, Inc, Kearny, N J
Leatex Chem Co, Phila, Pa

ASSISTANTS, VAT PRINTING

Catalysts which improve, accelerate, brighten, and strengthen vat printing pastes.

Aktivin Div, Heyden Chem Corp, 393 7 av, N Y — Pennsylvania 6-9000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

AUTOMOBILE SPECIALTIES

★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Bell Co Inc, Chicago, Ill
Bostwick Labs Inc, Bridgeport, Conn
Buckingham Wax Co, Long Is City, N Y
Dubois Co, Cincinnati, O
Hollingshead, R M, Corp, Camden, N J
Houk & Co, Cleavland, O
K & L Chem Co, Chicago, Ill
Montgomery Bros Inc, Phila, Pa
Penetone Co, Tenafly, N J
Randall Prods Mfg Co, N Y
Simmons Prods Co, Inc, N Y
Stewart Chem Prod Co, Longmont, Colo
Thompson Chem Co, Pawtucket, R I
Zip Prods Co, Los Angeles, Calif

BABBITT METAL

Alloy 69% Zn, 19% Sn, 4% Cu, 3% Sb, 5% Pb. Uses—in machining bearings. Tariff, Babbitt metal, solder, white metal, and other combinations containing lead, lead content, 2½c lb.

Amer Firstaline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Eagle Picher Co, Cincinnati, O — Natl Lead Co, N Y
Federated Metals Div, N Y

BACKWINDING COMPOUNDS, TEXTILE

Preparations for softening and lubricating yarns, particularly silk, so that they will knit readily. Used specially on full-fashioned and seamless knitting machines.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

BARREL-LINING COMPOUNDS

Products usually formulated from asphalt, certain forms of pure pitch or synthetic resins suitable for lining the inside of barrels, beer-barrels or containers, etc., to prevent contamination, corrosion, etc. See also enamels, brewers; also pitch, brewers.

Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907
Brentwor, I N, & Assocs, Los Angeles, Calif
Raffi & Swanson, Inc, Chelsea, Mass

BASES, ABSORPTION

Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Bopf-Whittam Corp, Linden, N J

BATES, TANNING

Hides and skins are bated first, to remove the free and combined lime, and second, to reduce the swelling of the collagen fibres, caused by the lime, thereby restoring the hides and skins to the required degree of softness or flaccidity. Before the introduction of modern synthetic bates, the most commonly used materials were hen, pigeon, and dog dungs. When hen or pigeon dung was used, the process was called bating, and when dog dung was used it was called puering. Value of dung for defliming and falling purposes was caused by its ammonium chloride content and presence of certain enzymes. Artificial bates are usually compounded with a suitable ammonium salt, pancreatic enzymes, and an inert filler.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

BINDERS, BRIQUETTE

Products of strong adhesive qualities, usually of coal-tar origin, that are employed in the briquetting coal, charcoal, etc.

Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

BINDERS, CORE

Oil preparations that impart strength and cohesion to the sand molds in foundry practice, to provide smoother working in the boxes, quicker drying in the oven, an easier shakeout, a reduction in the gas in the molds, and to prevent crusting.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Hercules Powder Co, 978 Market St, Wilmington, Del — Wilmington 4-5121
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Marathon Corp, Chem Div, Rothschild, Wis — 45201
★Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
Wuefler Bates Co, Indianapolis, Ind
Stevens, Frederic B, Inc, Detroit, Mich

BINDERS, TANNING

Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

BINDERS, TEXTILE

Products employed in finishing processes to give adhesion and a certain degree of stiffness to the cloth; usually formulated from certain gums, particularly locust bean, karaya and tragacanth.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

BLASTING SUPPLIES

Amer Cyanamid Co, Explosives Dept, 30 Rockefeller Plaza, N Y — Circle 7-0100
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
Hercules Powder Co, 978 Market St, Wilmington, Del — 45201
Trojan Powder Co, Allentown, Pa
Carborundum Co, Niagara Falls, N Y
Natl Powder Co, Eldred, Pa

BLEACHES, FOOD

Preparations employed for such uses as bleaching flour, horseradish, cabbage, cauliflower, restoring the natural color to pickles, etc. Must be harmless and comply with the federal, state and local pure food laws and regulations.

Becco Sales Corp, Buffalo, N Y — Bedford 8300
Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Sterwin Chems, Inc, 1450 Bway, N Y — Barclay 7-2091
Weeks, O J, Co Inc, 16 Hudson St, N Y — Murray Hill 9-4920
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y

BLEACHES, GASOLINE

Becco Sales Corp, Buffalo, N Y — Bedford 8300
Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Ox Color Wks, N Y

BLEACHES, LAUNDRY

Products which tend to whiten and remove stains. Most commonly used is sodium hypochlorite or Javelle Water, usually sold on the basis of percentage of available chlorine. Other products, such as hydrogen peroxide, perborates, etc., are also used as bleaches in laundry work.

Aktivin Div, Heyden Chem Corp, 393 7 av, N Y — Pennsylvania 6-9000
Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Becco Sales Corp, Buffalo, N Y — Bedford 8300
Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Cowles Chem Co, 7016 Euclid Av, Cleveland, O — Henderson 1-3400
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300

Dependably Uniform...

ISCO

Sierra

ADSORBOL—

Sierra Adsorbol is a new bleaching agent recommended for bleaching, decolorizing and deodorizing vegetable, animal and synthetic petroleum oils. Also used for clarifying kerosene, gasoline and other solvents and for purification of fatty acids. Suitable grade available for use as absorbent agent in preparation of insecticide concentrates.

INNIS, SPEIDEN & CO. 117 LIBERTY ST, NEW YORK 6

BOSTON · CHICAGO · CINCINNATI · CLEVELAND · LOUISVILLE · PHILADELPHIA

SUBSIDIARY · E. S. BROWNING CO.

SAN FRANCISCO · LOS ANGELES

BLEACHES, LAUNDRY (cont'd)

Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Barton Chem Co, Chicago, Ill
Carlton Chem Co, Inc, N Y
Hachik Bleach Co, Phila, Pa
Kuehne Chem Co, Elizabeth, N J
Leich, Charles, & Co, Evansville, Ind
Natl Soap Co, Tacoma, Wash
Nelson Chems Corp, Detroit, Mich
Nor-Ed Chem Co, Yorkshire, N Y
Patek & Co, San Fran, Calif
Port Huron Detergent Co, Inc, Port Huron, Mich
Superior Prods Co, Somerville, Mass
Western Michigan Chem Co, Muskegon, Mich

BLEACHES, OILS

Becco Sales Corp, Buffalo, N Y — Bedford 8300
Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Ox Color Wks, N Y

BLEACHES, PAPER & PULP

Becco Sales Corp, Buffalo, N Y — Bedford 8300
Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Kuehne Chem Co, Elizabeth, N J

BLEACHES, TEXTILE

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Becco Sales Corp, Buffalo, N Y — Bedford 8300
Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
Mann, George & Co, Inc, 253 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Merchants Chem Co, inc, 60 E 42 St, N Y — Murray Hill 2-8712
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Welf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Carlton Chem Co, Inc, N Y
Kuehne Chem Co, Elizabeth, N J
Marlowe-Van Loan Corp, High Point, N C

BLEACHES, WOOD

Becco Sales Corp, Buffalo, N Y — Bedford 8300
Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Merchants Chem Co, inc, 60 E 42 St, N Y — Murray Hill 2-8712
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060

Dolan, V J, & Co, Inc, Chicago, Ill
Grand Rapids Wood Finishing Co, Grand Rapids, Mich
Ruehl Paint Co, Cincinnati, O
Van Allen, L R, Co, Chicago, Ill
Western States Lacquer Co, Los Angeles, Calif
Wolverine Finishes Corp, Grand Rapids, Mich

BLUING, BLEACHERS'

Concentrated solution. A combination of blue dyes, levelling wetl on cotton to overcome yellow or brown casts after bleaching, producing bright, clear whites.

Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Kohnstamm, H & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962

Hachik Bleach Co, Phila, Pa
Kuehne Chem Co, Elizabeth, N J
Superior Prods Co, Somerville, Mass

BLUING, LAUNDRY

Products which impart a whiter appearance to laundered articles. Good laundry blue should have a reddish tinge. Two types are in commercial use, the soluble blues of which the Prussian blues and the aniline blues are most important, and the insoluble blues of which ultramarine is the most important.

BLUING, LAUNDRY (cont'd)

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Cowles Chem Co, 7016 Euclid Av, Cleveland, O — Henderson 1-3400
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500

Port Huron Detergent Co, Inc, Port Huron, Mich
Superior Prods Co, Somerville, Mass

BOILER COMPOUNDS

Products formulated to eliminate and prevent rust, congestion, corrosion, and scale formation in low and high pressure boilers, hot water supply and heating systems.

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Antara Prods, Genl Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Garis and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Kali Mfg Co, 427 Meyer St, Phila, Pa — Regent 9-2370
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Marathon Corp, Chem Div, Rothschild, Wis — Armory 4-2294
Seaboard Industries, 195 Keen St, Paterson, N J — Murray Hill 9-4920
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Lambert 3-3600
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J

Anderson Stols Corp, Kansas City, Mo
Asbury Graphite Mills Inc, Asbury, N J
Barton Chem Co, Chicago, Ill
Cabell Chem Co, Huntington, W Va
Central Illinois Labs, Inc, Peoria, Ill
Chem Engineering Co, Dallas, Texas
Dacar Chem Prods Co, Pittsburgh, Pa
Elgin Softener Corp, Elgin, Ill
Feedwaters Inc, N Y
Hawk Eye Compound Co, Inc, Blue Island, Ill
Herbert Chem Co, Cincinnati, O
Kelite Prods, Inc, Los Angeles, Calif
Mertz, L Carlton, Co, Chicago, Ill
Patek & Co, San Fran, Calif
Permutit Co, N Y
Starr Mfg & Chem Co, Lima, O
State Mfg Co, Inc, Cleveland, O
Superior Chem Wks, Louisville, Ky
Wasco Eng Corp, N Y
Western Soap & Sales Co, Spokane, Wash
Williams Chem Corp, Miami, Fla

BOILER FEED WATER TREATMENT

★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Marathon Corp, Chem Div, Rothschild, Wis — Murray Hill 7-7267
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 9-4920
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Hastings 5-3000
Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y

Anderson Stols Corp, Kansas City, Mo
Buromin Co, Pittsburgh, Pa
Chem Engineering Co, Dallas, Texas
Chem Process Co, Redwood City, Calif
Dacar Chem Prods Co, Pittsburgh, Pa
Elgin Softener Corp, Elgin, Ill
Feedwaters Inc, N Y
Hawk Eye Compound Co, Inc, Blue Island, Ill
Inflico Inc, Chicago, Ill
Milwaukee Chem Co, Milwaukee, Wis
Natl Aluminate Corp, Chicago, Ill
Permutit Co, N Y
Smith, E W, Chem Co, Los Angeles, Calif
Starr Mfg & Chem Co, Lima, O
Superior Chem Wks, Louisville, Ky
Warren Refg & Chem Co, Cleveland, O
Wasco Eng Corp, N Y
Water Service Labs, Inc, N Y

BOILER TREATMENT

Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Kohnstamm, H & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Anderson Stols Corp, Kansas City, Mo
Buromin Co, Pittsburgh, Pa
Chem Engineering Co, Dallas, Texas
Chem Labs, Houston, Texas
Elgin Softener Corp, Elgin, Ill
Feedwaters Inc, N Y
Flexoid Prods, Inc, Boston, Mass
Hawk Eye Compound Co, Inc, Blue Island, Ill
Kelite Prods, Inc, Los Angeles, Calif
Natl Aluminate Corp, Chicago, Ill
Permutit Co, N Y
Starr Mfg & Chem Co, Lima, O
State Mfg Co, Inc, Cleveland, O
Superior Chem Wks, Louisville, Ky

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

BOIL-OFF COMPOUNDS, RAYON

Strictly there is no "boiling-off" of rayon, since no sericin or gum is present; however, some rayon is not delivered by the manufacturer to the dyer in the bleached state, and does contain oils used in twisting, winding, sizing, etc., and fats, etc., employed in manufacture, so that the yarn must be scoured thoroughly. See Boil-Off Compounds, Textile; Detergents, Textile.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951

BOIL-OFF COMPOUNDS, RAYON (cont'd)

Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Adell Chem Co, Holyoke, Mass
Colloids Inc, Newark, N J
Leatex Chem Co, Phila, Pa

BOIL-OFF COMPOUNDS, SILK

Compounds for degumming silk, carefully adjusted to the proper pH for the rapid removal of the silk-gum without chaffing, tendering or otherwise damaging the fibre. See Boil-Off Compounds, Textile.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Adell Chem Co, Holyoke, Mass
Leatex Chem Co, Phila, Pa

BOIL-OFF COMPOUNDS, TEXTILE

Compounds prepared to boil out the gums, pectins, fats and waxes etc., present in natural fibers and to prepare the goods for dyeing, mercerizing and finishing operations.

Aktivin Div, Heyden Chem Corp, 393 7 av, N Y — Pennsylvania 6-9000
Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
†Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
†Hercules Powder Co, 978 Market St, Wilmington, Del
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Adell Chem Co, Holyoke, Mass
Apex Chem Co, N Y
Laurel Soap Mfg Co, Phila, Pa
Leatex Chem Co, Phila, Pa
Synthron Inc, Ashton, R I
Titan Chem Prods Inc, Jersey City, N J

BORDEAUX MIXTURE

Valuable insecticidal spray: basic sulfate of copper made by the reaction of copper sulfate with lime, and mixtures differ in the ratio of lime to copper sulfate; available in the liquid form and also dry consisting chiefly of $4CuO.SO_3$, with excess hydrated lime.

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Phelps Dodge Refg Corp, 40 Wall St, N Y — Whitehall 4-0560

BOTTLERS, ALKALI

Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0953
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Cowles Chem Co, 7016 Euclid Av, Cleveland, O — Henderson 1-3400
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa — McKeesport 4-4278
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va — 2-0113
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700

Kemiko Mfg Co, Irvington, N J
Leich, Charles, & Co, Evansville, Ind
Magnuson Prods Corp, Bklyn, N Y
Mertz, L Carlton, Co, Chicago, Ill
Port Huron Detergent Co, Inc, Port Huron, Mich
Western Michigan Chem Co, Muskegon, Mich

BRAKE COMPOUNDS, HYDRAULIC

Preparations used in the chambers of hydraulic brake systems. Requirements are: physical stability, should not break down under pressure or change chemically with age; should not become thick and syrupy in cold weather and thin in hot; not corrosive to metals nor attack the rubber plunger cups of the brake assembly causing them to harden, soften or swell.

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
†Dow Chem Co, Midland, Mich — Midland 500
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Bell Co Inc, Chicago, Ill
Counts, James, Soap Co, St Louis, Mo
Crystal Soap & Chem Co, Inc, Phila, Pa
Hollingshead, R M, Corp, Camden, N J
K & L Chem Co, Chicago, Ill
Park Chem Co, Detroit, Mich
Randall Prods Mfg Co, N Y
Thompson Chem Co, Pawtucket, R I
Zip Prods Co, Los Angeles, Calif

BRAKE LINING SATURANTS

Preparations used as a bonding material with the asbestos base brake lining. Requirements are: exceptional strength and heat resistance, good frictional and wearing qualities.

Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Irvington Varnish & Insulator Co, Irvington, N J

BRAZING COMPOUNDS

Alloys of varying proportions of brass and zinc used as a solder.

Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Handy & Harman, N Y

BROACHING COMPOUNDS

Specially formulated lubricants used in machine shops, etc., for tapering, boring, smoothing operations, etc.

Rodgers, Thos T, Chem Labs, Milwaukee, Wis
Wayne Soap Co, Detroit, Mich

BRONZING LIQUIDS

Vehicles used for mixing with bronze powder or paste and which provide the necessary medium for spreading and leafing the metallic pigment.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Midland Industrial Finishes Co, Waukegan, Ill
Ruehl Paint Co, Cincinnati, O

BUFFING COMPOUNDS

Compounds applied to the buffs (disks of cloth or similar pliant materials) used in the buffing operation which follows the polishing operation on metals. Buffing usually is classified in two ways "cutting down" and "coloring." For the first, specially processed tripoli or emery and tallow are commonly employed, and for "coloring" aluminum oxide or chromium oxide compounds are popular. Other preparations are specially compounded with tripoli and chromium oxide, with pumice, emery and a machine oil, with soap-bark powder and water, with pumice and a grease-removing solvent, others contain lime.

Butchw, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421

Buckingham Prods Co, Detroit, Mich
Donald Sales & Mfg Co, Milwaukee, Wis
Harrison & Co, Inc, Haverhill, Mass
Kocour Co, Chicago, Ill
Nu Steel Co, Chicago, Ill
Stetens, Frederic B, Inc, Detroit, Mich
Udylite Corp, Detroit, Mich
Western Michigan Chem Co, Muskegon, Mich

BURNISHING COMPOUNDS

Butchw, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700

BURNISHING COMPOUNDS (cont'd)

Wellen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700

For Electro-Chem Co, Ansonia, Conn
Macco Prods Co, Chicago, Ill
Magnuson Prods Corp, Bklyn, N Y
Nu Steel Co, Chicago, Ill
Udylite Corp, Detroit, Mich
Wayne Soap Co, Detroit, Mich

CABLE FILLING COMPOUNDS

Plastic compounds for filling joints in rubber, varnished cambric, or paper insulated cables so as to prevent entrance of moisture and to give suitable electric properties. Should be acid and alkali-resistant, possess high waterproofing qualities, excellent adhesive properties, bonding perfectly to metals, porcelain, and glass. Should be extremely flexible and should withstand abrupt temperature changes.

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900

Hardman, H V, Co, Inc, Belleville, N J

CABLE WEATHERPROOFING COMPOUNDS

Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Ironsides Co, Columbus, O

CARBON, WELDING

National Carbon Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Bowling Green 9-2240

CARBURIZING COMPOUNDS

Preparations which supply additional carbon to molten metals (iron, steel, etc.) for the purpose of hardening. See also Case-Hardening Materials, Nitriding Compounds.

METAL CARBURIZING
AND
HEAT TREATING SALTS

AEROCARB* Carburizing Compounds

AEROCASE* Case Hardening Compounds

AEROHEAT* Heat Treating Salts

Full Technical Data Available on Request

AMERICAN Cyanamid COMPANY

30 Rockefeller Plaza, New York 20, N. Y.

* Reg. U. S. Pat. Off.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Kali Mfg Co, 427 Meyer St, Phila, Pa — Regent 9-2370
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

Park Chem Co, Detroit, Mich

CASE-HARDENING MATERIALS

Compounds which impart surface hardness to steel through the absorption of carbon during a heating followed by a quenching operation. The basis of case-hardening or carburizing compounds is usually wood charcoal, together with certain so-called "energizers" such as sodium or barium carbonates, cyanides, etc. Many compounds also have oil or other organic binders.

DU PONT
Reg. U. S. Pat. Off.

CHEMICALS *for the* METAL INDUSTRY

Cyanides and Salts for Case Hardening, Re-heating, Nitriding and Coloring.

Sodium for Sodium Hydride Descaling of Steel.

Electropolishing Solution for Stainless Steels.

Trichlorethylene and Perchlorethylene for metal degreasing.

Electroplating Chemicals and Processes for Zinc, Cadmium, Copper, Lead, Tin, Brass, Bronze.

E. I. DU PONT DE NEMOURS & CO. (INC.)
ELECTROCHEMICALS DEPARTMENT
WILMINGTON 98 DELAWARE

CASE-HARDENING MATERIALS (cont'd)

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2725
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Kali Mfg Co, 427 Meyer St, Phila, Pa — Regent 9-2370
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323

Park Chem Co, Detroit, Mich

CATALYST SUPPORTS, BAUXITE

Attapulgus Clay Co, 210 W Washington Sq, Phila, Pa — Walnut 2-5720
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

CATALYST SUPPORTS, FULLERS EARTH

Attapulgus Clay Co, 210 W Washington Sq, Phila, Pa — Walnut 2-5720
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817

CAULKING COMPOUNDS

Products which are easily applied with a trowel knife or caulking gun, remain firm, yet flexible, and adhere indefinitely to all types of masonry, building metals, wood, etc., to fill cracks, seams, joints, etc.

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Amer Fluresit Co, Cincinnati, O
Armstrong Co, Detroit, Mich
Ceresit Waterproofing Corp, Chicago, Ill
Euclid Chem Co, Cleveland, O
Ever-Plastics Corp, N Y
Ferdinand, L W, & Co, Inc, Newton Lower Falls, Mass
Fort Pitt Chem Co, Pittsburgh, Pa
Horn, A C, Co, Inc, Long Is City, N Y
Houk & Co, Clearland, O
Landen Putty Wks, Malden, Mass
Pecora Paint Co, Inc, Phila, Pa
Reardon Industries, Cincinnati, O
Sika Chem Corp, Passaic, N J
Smooth-On Mfg Co, Jersey City, N J
Sullivan Co, Memphis, Tenn
Sun Chem Corp, Long Is City, N Y
Tamms Silica Co, Chicago, Ill

CEMENTS, ACID-PROOF

Preparations resistant to most acids (hydrofluoric is the notable exceptiion) to water, oil, and most solvents. Employed in acid-proof construction, building up metal pattenrs, cementing tile to aluminum in humidifiers, cementing metal to metal, as a pipe joint compound on underground oil and acid pipe connections, etc.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Atlas Mineral Prods Co, Mertztown, Pa — Topton 37

ACID-PROOF CEMENTS
ACID-PROOF BRICK
SYNTHETIC RUBBER AND RESIN COATINGS

A complete line of corrosion-proof cements based on furfuryl alcohol resins, phenolic resins, plasticized sulfur and silicates. Protective coatings based on vinyl chloride, styrene and vinylidene chloride copolymers, as well as phenolic and furfuryl alcohol resins. Corrosion-proof linings based on Saran, neoprene, natural rubber, polyethylene, polyvinyl chloride and asphalt. Consult Atlas Technical Service for all corrosion problems.

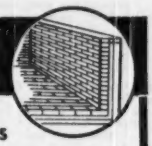
Write for technical literature

THE ATLAS MINERAL PRODUCTS COMPANY
Mertztown, Pennsylvania
Houston, Texas

★See ad in Catalog Section

for ACID-PROOF TANKS

SAUEREISEN
ACID PROOF CEMENTS



• CHIMNEYS • VATS
• FLOORS • SEWERS

In leading chemical and processing plants, steel mills, dairies and oil refineries Sauereisen Acid Proof Cements are used in the construction of tanks, floors, sewers, drains and chimneys. There are special types to resist all acids and temperatures up to 2000 deg. F.

• Send sketches, or blueprints and let us quote on your requirements.

SAUEREISEN CEMENTS COMPANY
Sharpsburg St., Pittsburgh 15, Penna.

CEMENTS, ACID-PROOF (cont'd)

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Carboline Co, St Louis, Mo
Cellcote Co, Cleveland, O
Electro Chem Supply & Eng Co, Emmaus, Pa
Lox Mfg Co, Kansas City, Mo
Nukem Prods Corp, Buffalo, N Y
Orefraction Inc, Pittsburgh, Pa
Pecora Paint Co, Inc, Phila, Pa
Quigley Co, Inc, N Y
Rulon, Ralph V, Inc, Phila, Pa

CEMENTS, ASBESTOS

Asbestos base cements used extensively in the plumbing and steam fitting trades; in the manufacture of composition flooring, roof coatings, plastic wall finishes, in the manufacture of paints, asphalt compounds, etc.

Carey, Philip, Mfg Co, Cincinnati, O — Valley 3000
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323

Clinton Metallic Paint Co, Clinton, N Y
Eagle Picher Co, Cincinnati, O
Ruberoid Co, N Y
Standard Asbestos Mfg Co, Chicago, Ill
Walsh Refractories Corp, St Louis, Mo

Carey ASPHALT PRODUCTS

BUILT-UP ROOFS • FLOORING • ELASTITE EXPANSION JOINTS • FIBROUS CAR CEMENT • ASPHALT CAR ROOFINGS ROOF COATINGS and CEMENTS • ASPHALT SHINGLES and ROLL ROOFINGS • WATERPROOFING MATERIALS.

Write for details concerning specific products. Address Department CI-8.

THE PHILIP CAREY MANUFACTURING CO., CINCINNATI 15, O.
In Canada: The Philip Carey Co., Ltd., 1857 MacKay St., Montreal 25, P. Q.

CEMENTS, ASPHALT

A fluxed or unfluxed asphalt specially prepared for direct use in the manufacture of bituminous pavements, and having a penetration at 25° C. of between 5 and 250, under a load of 100 g., applied in 5 seconds (A.S.T.M. Standard Definition)

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Carey, Philip, Mfg Co, Cincinnati, O — Valley 3000
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Asphalt Emulsion Service Inc, N Y
Berry Asphalt Co, Magnolia, Ark
Chem Supply Co, Cleveland, O
Flexoid Prods, Inc, Boston, Mass
Horn, A C, Co, Inc, Long Is City, N Y
Ruberoid Co, N Y
Schaffer-Moss Chem Corp, Pittsburgh, Pa
Standard Paste & Glue Co, Inc, Chicago, Ill

CEMENTS, BELT

Used to splice leather belting; should possess good resistance to the action of oils, greases, and water. Also see Cements, Rubber for cements used on rubber belts.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100

CEMENTS, BELT (cont'd)

★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323

Angier Prods, Inc, Cambridge, Mass
Avondale Co, Northfield, Ill
Raffi & Swanson, Inc, Chelsea, Mass

CEMENTS, BOILER

A sealing compound that permanently and effectively stops air infiltration through boiler settings, cracks, or pores into the combustion chamber to effect fuel economy and protect the boiler setting wall and top from dampness and deterioration.

Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323

Flexoid Prods, Inc, Boston, Mass
Ironton Fire Brick Co, Ironton, O
N Amer Refractories Co, Cleveland, O
Smooth-On Mfg Co, Jersey City, N J

CEMENTS, BOOK-BINDERS

Specially prepared for use in binding paper to cloth and leather; for binding leaf-sheaves together; also for binding body of book to back and covers. The higher grades are cold liquid cements which are waterproof, remain flexible and will not become tacky in moist weather; will not deteriorate, or attract vermin or worms.

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Adhesive Prods Corp, N Y
Burtonite Co, Nutley, N J
Diamond Ink & Adhesive Co, Milwaukee, Wis
Green's Paste Wks, Syracuse, N Y
Hughes Glue Co, Detroit, Mich
S S Rubber Cement Co, Chicago, Ill
Slomons Labs Inc, Long Is City, N Y

CEMENTS, BRICK

Specialized compounds used as mortar in laying up brick; in smoke-stacks, in lining acid tanks, recuperators, etc., where concentrations of alkalies or acids are encountered.

Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323

Botfield Refractories Co, Phila, Pa
Walsh Refractories Corp, St Louis, Mo

CEMENTS, BRISTLE SETTING

Cements, usually formulated with synthetic resins or rubber, used for setting bristles in brushes to provide a tenacious bond. They should have great durability and excellent resistance to benzene, oils, water and most paint and lacquer thinners. The viscosity of the bristle setting cement should be worked out experimentally in the brushmakers' plant.

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860

Hardman, H V, Co, Inc, Belleville, N J

CEMENTS, CARPETS

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650

Adhesive Prods Corp, N Y
Hughes Glue Co, Detroit, Mich
Montgomery Bros Inc, Phila, Pa
Polymer Chem Co, Cincinnati, O
Rubba Inc, N Y
Union Bay State Co, Inc, Cambridge, Mass

CEMENTS, CELLULOID

Specialized adhesives used to join in close union different pieces of pyroxylin, usually effected through the use of solvents on Celluloid. Upon evaporation the pieces become for practical purposes a single unit in contrast to the usual method where the adhesive acts as a bond between the articles joined.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
LaPlace, I J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Burtonite Co, Nutley, N J
General Cement Mfg Co, Rockford, Ill
Houk & Co, Cleavland, O
Kepec Chem Corp, Milwaukee, Wis
Warren-Douglas Chem Co, Inc, Omaha, Nebr

CEMENTS, CORK

Specialized adhesives used to bind cork to other materials and for sealing corks into bottles.

†Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2719
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323

Atlas Adhesives, Phila, Pa
Burtonite Co, Nutley, N J
Rubba Inc, N Y

CEMENTS, ELECTRICAL RESISTING

Pastes or powders which harden into porcelain or porcelain-type materials, insulate electricity, radiate heat, are resistant to most acids alkalies, to oil and high temperatures. Replace insulating varnish and enamel, mica, asbestos, etc.

Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323

★See ad in Catalog Section

TAM
ZIRCONIUM & TITANIUM PRODUCTS
Registered U. S. Pat. Off.

*TAM Zircon Electrical Insulating cements used in strip heaters, hot plates, flat irons, etc., exhibit high electrical resistance and excellent working properties.

* Registered Trade Mark

TITANIUM ALLOY MFG. DIVISION
NATIONAL LEAD COMPANY
Office: 111 Broadway, N. Y. C. Plant: Niagara Falls, N. Y.

For other products and services see our ads in Catalog Section

CEMENTS, ELECTRICAL RESISTING (cont'd)

★Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943
Ferdinand, L W, & Co, Inc, Newton Lower Falls, Mass
Orefraction Inc, Pittsburgh, Pa

CEMENTS, ENGRAVERS

Preparations used by engravers to mount halftones, zinc plates, etc., to the wooden block. Employed particularly where no shoulders are used that would permit other methods of fastening.

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Lox Mfg Co, Kansas City, Mo
Shields Buying Service, N Y

CEMENTS, FABRIC, CANVAS

Preparations of various ingredients used to join fabrics together in a permanent bond. Should not be seriously affected by oil, water, steam, etc., and remain indefinitely in an elastic state and not crack, chip or crumble.

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Adhesive Prods Corp, N Y
Burtonite Co, Nutley, N J
Ferdinand, L W, & Co, Inc, Newton Lower Falls, Mass
E & L Chem Co, Chicago, Ill
Montgomery Bros Inc, Phila, Pa
Rubba Inc, N Y
Union Bay State Co, Inc, Cambridge, Mass

CEMENTS, FELT

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Atlas Adhesives, Phila, Pa
Burtonite Co, Nutley, N J
Cabot, Samuel, Inc, Boston, Mass
Marstin Adhesive Co, Wollaston, Mass
Midland Glue Prods Co, Inc, Detroit, Mich

CEMENTS, FILLERS

Composition Materials Co, Inc, 28 W 44 St, N Y — Bryant 9-3277
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Seldner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7430
United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

CEMENTS, FILM, PHOTOGRAPHIC

Specialized preparations used to join and repair moving picture film. Newer type cements have a solvent effect on the film providing a more permanent bond. See also Cements, Celluloid.

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000
Chem Specialties, Chicago, Ill
Houk & Co, Cleavland, O

CEMENTS, FOUNDRY

Adhesives used in foundry practice to bind parts together. See also Cements, Refractory; Cements, High Temperature.

Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
★Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943
Foundry Services Inc, N Y
N Amer Refractories Co, [illegible]
Smooth-On Mfg Co, Jersey City, N J
Stevens, Frederic B, Inc, Detroit, Mich
Superior Flake Graphite Co, Chicago, Ill

CEMENTS, FURNACE

Preparations for setting-up and repairing joints in furnaces, ranges, heaters, and stoves, and for stopping holes in flues and draft pipes. Should be free from gritty particles, work smoothly, and adhere firmly to metal castings, etc.

Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Armstrong Co, Detroit, Mich
Botfield Refractories Co, Phila, Pa
Buckingham Prods Co, Detroit, Mich
Pecora Paint Co, Inc, Phila, Pa
Standard Asbestos Mfg Co, Chicago, Ill

CEMENTS, GASKET

Preparations used either with or without a gasket to seal metal parts together, particularly the heads of automobile, stationary engines, etc. Must fill the fine pores, imperfections, or unevenness of the parts joined, making the joint permanently tight, and seal effectively against leakage of water, gas, oil, air, steam, and be impervious to acids and alkali.

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Angier Prods, Inc, Cambridge, Mass
Bell Co Inc, Chicago, Ill
Cabot, Samuel, Inc, Boston, Mass
Ferdinand, L W, & Co, Inc, Newton Lower Falls, Mass
K & L Chem Co, Chicago, Ill
Lake Chem Co, Chicago, Ill
Park Chem Co, Detroit, Mich
Rector Well Equip Co, Inc, Houston, Texas
Smooth-On Mfg Co, Jersey City, N J
Stille-Young Corp, Chicago, Ill
Thompson Chem Co, Pawtucket, R I

CEMENTS, GLAZING

Adhesives used to fill scratches and imperfections and to give strong adhesion to parts mended together.

Ever-Plastics Corp, N Y

CEMENTS, GRAPHITE

Adhesives formulated with graphite, often in the colloidal form. Used on gaskets, etc.

National Carbon Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Acheson Colloids Corp, Port Huron, Mich
Superior Flake Graphite Co, Chicago, Ill

CEMENTS, INSULATING

Products formulated from mineral wool base, expanded vermiculite base, asbestos fibre and binder, or other materials and used principally for insulation purposes on irregular surfaces where it would be impracticable to apply sectional insulation, sheets or blocks. Used extensively by the steam-fitting and plumbing trade for insulation and finishing heating boilers and pipe fittings, etc.

Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Botfield Refractories Co, Phila, Pa
Eagle Picher Co, Cincinnati, O
Keasbey & Mattison Co, Ambler, Pa
N Amer Refractories Co, Cleveland, O
Quigley Co, Inc, N Y
Reardon Industries, Cincinnati, O
Standard Asbestos Mfg Co, Chicago, Ill
Walsh Refractories Corp, St Louis, Mo

CEMENTS, LABORATORY

General utility products finding wide application in laboratories for mending and repairing glass to glass, glass to metal, rubber to metal or glass, porcelain ware, etc.

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Amer Fluresit Co, Cincinnati, O
Machlett, E, & Son, N Y
Varnitos Co, Burbank, Calif

CEMENTS, LAMP BASING

Cements used to set electric light bulbs in their bases. Cements of this type are also employed for basing radio and other electronic tubes.

Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Atlas Adhesives, Phila, Pa
Borden Co, N Y

CEMENTS, LINOLEUM

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356
Atlas Adhesives, Phila, Pa
Commercial Paste Co, Columbus, O
Ferdinand, L W, & Co, Inc, Newton Lower Falls, Mass
Minnesota Mining & Mfg Co, Detroit, Mich
Rubba Inc, N Y
Wocher, H M, & Son Co, Phila, Pa

CEMENTS, OIL-PROOF

Adhesives with the property of sustained resistance to action of oil, gasoline, gasoline and oil fumes, etc., and finding such representative uses as cement for gaskets used in hosing, etc.

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907
Atlas Adhesives, Phila, Pa
Burtonite Co, Nutley, N J
Callahan, Geo, & Co, Inc, Closter, N J
Minnesota Mining & Mfg Co, Detroit, Mich
Rubba Inc, N Y

CEMENTS, PLASTIC

Compounds usually formulated with heavy, weather-resisting asphalt and asbestos fibers to an easy troweling consistency and used largely for repairing leaky seams, cuts or holes in roofs and for flashing. Also cements of varying formulation used as bonding agents for a wide variety of purposes.

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860

CEMENTS, PLASTIC (cont'd)

Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Adhesive Prods Corp, N Y
Angier Prods, Inc, Cambridge, Mass
Cabot, Samuel, Inc, Boston, Mass
Ever-Plastics Corp, N Y
General Cement Mfg Co, Rockford, Ill
Lox Mfg Co, Kansas City, Mo
Marblette Corp, Long Is City, N Y
Midland Glue Prods Co, Inc, Detroit, Mich
Minnesota Mining & Mfg Co, Detroit, Mich
Pacific Plastics & Chem Co, Redwood City, Calif
Polymer Chem Co, Cincinnati, O

CEMENTS, PLASTIC, COAL TAR

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

Horn, A C, Co, Inc, Long Is City, N Y
Huggins, James, & Son, Malden, Mass

CEMENTS, PYROXYLIN

Solvents possessing the property of softening cellulose nitrate plastics without completely dissolving them, are useful for cementing such plastics to themselves. Body cements containing cellulose nitrate, plasticizers and solvents are compounded which will cause cellulose nitrate plastics to adhere to other bodies. For suppliers see Cements, Celluloid.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Adhesive Prods Corp, N Y
Lox Mfg Co, Kansas City, Mo
Pyroxylin Prods, Inc, Chicago, Ill
Raffi & Swanson, Inc, Chelsea, Mass
Rubba Inc, N Y
Slomons Labs Inc, Long Is City, N Y

CEMENTS, REFRACTORY

Preparations which assume a cold air set of extreme hardness at atmospheric temperatures, or may be baked. Applied by brushing, dipping, troweling, or spraying, and employed in making electric heating elements, coating resistors; on brick and concrete surfaces as a slurry; as a refractory coating, filling the pores, crevices and irregular surfaces; and for lining furnaces.

Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Buay, Oakland, Calif — Twineaks 3-4600
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
★Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Botfield Refractories Co, Phila, Pa
Carborundum Co, Niagara Falls, N Y
Eagle Picher Co, Cincinnati, O
Foundry Services Inc, N Y
Green, A P, Fire Brick, Mexico, Mo
Ironton Fire Brick Co, Ironton, O
Keystone Refractories Co, N Y
N Amer Refractories Co, Cleveland, O
Orefraction Inc, Pittsburgh, Pa
Quigley Co, Inc, N Y
Pliibrico Jointless Firebrick Co, Chicago, Ill
Taylor, Chas, Sons Co, Cincinnati, O
Walsh Refractories Corp, St Louis, Mo

CEMENTS, ROOFING

In either liquid or paste form for use on paper, metal, gravel or other style roofs; also for gutters, flashings, chimneys, pipes, vents, watertroughs, skylights, downspouts, etc. Should spread smoothly and easily, should not crack or become brittle under changing weather conditions.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

Asphalt Emulsion Service Inc, N Y
Berry Asphalt Co, Magnolia, Ark
Chem Supply Co, Cleveland, O
Dacar Chem Prods Co, Pittsburgh, Pa
Euclid Chem Co, Cleveland, O
Fort Pitt Chem Co, Pittsburgh, Pa
Huggins, James, & Son, Malden, Mass
Pecora Paint Co, Inc, Phila, Pa
Pingo Co, Boston, Mass
Wooster Sealkote Co, Wooster, O

CEMENTS, RUBBER

Because of rubber's wide variability in tackiness it is well adapted for use in cements when formulated with proper solvents. Rubber cements are largely used: 1. As binders to hold materials in position until sewing or clamping is accomplished; 2. As permanent bonds; 3. As vulcanized seals. Rubber cements are used in shoe-manufacturing, by automotive manufacturers for assembling upholstery, as sound deadeners, in the manufacture of pocket-books, impregnation of paper and wood fiber, for repairing tires and tubes, in balloon cements, in fastening linings to insides of tankcars, in securing rubber insulators to metal supports, etc. Latex cements are employed in fabricating carpets, for making mohair fabrics, for fastening the long hairs in haircloth used in lapels of coats, for the rubber setting of brushes; and for binding purposes in brake-lining compounds.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121

Adhesive Prods Corp, N Y
Angier Prods, Inc, Cambridge, Mass
Atlas Adhesives, Phila, Pa
Bell Co Inc, Chicago, Ill
Burtonite Co, Nutley, N J
Commercial Paste Co, Columbus, O
Dewey & Almy Chem Co, Cambridge, Mass
Diamond Ink & Adhesive Co, Milwaukee, Wis
General Cement Mfg Co, Rockford, Ill
General Latex & Chem Corp, Cambridge, Mass
Honk & Co, Clearland, O
Pannier Corp, Pittsburgh, Pa
Polymer Chem Co, Cincinnati, O
R S Rubber Cement Co, Chicago, Ill
Safran Chem & Supply Co, Lynn, Mass
Slomons Labs Inc, Long Is City, N Y
Standard Paste & Glue Co, Inc, Chicago, Ill
Thompson, H, Co, Los Angeles, Calif
Union Bay State Co, Inc, Cambridge, Mass

CEMENTS, RUBBER TILE

Specialized cements used for bonding rubber tile flooring to the under surface and the individual tiles to each other.

Angier Prods, Inc, Cambridge, Mass
Atlas Adhesives, Phila, Pa
Commercial Paste Co, Columbus, O
Polymer Chem Co, Cincinnati, O
Standard Paste & Glue Co, Inc, Chicago, Ill

CEMENTS, SULFUR

Preparations with a sulfur base, combined with other ingredients and used generally as a joint compound: melt and pour easily, possess high tensile and compression strength, resist acids, water, oil, and show good adhesion to metal, brick, tile, etc. Employed for caulking joints on cast iron, assembling porcelain insulators, sealing bolts, screws in electrical appliances and equipment, in acid-proof construction, etc.

Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323

Ceilcote Co, Cleveland, O
Electro Chem Supply & Eng Co, Emmons, Pa
Nukem Prods Corp, Buffalo, N Y
Rulon, Ralph V, Inc, Phila, Pa

CEMENTS, TRANSPARENT

Specialized adhesives that give a transparent, non-staining, binding and protective coating for such products as cement, brick, wood, plaster, metals, fabrics, china, paper, etc.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219

Angier Prods, Inc, Cambridge, Mass
Avondale Co, Northfield, Ill
Euclid Chem Co, Cleveland, O
General Cement Mfg Co, Rockford, Ill
Lox Mfg Co, Kansas City, Mo
Polymer Chem Co, Cincinnati, O

CEMENTS, WATERPROOFING

Various formulations of bonding agents designed to impart a high degree of imperviousness to water, dampness, etc., and used for floors, side-walls, concrete tanks, silos, etc.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Gartenberg, H, & Co, 412 W Parshing Rd, Chicago, Ill — Boulevard 6400
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162

Amer Fluresit Co, Cincinnati, O
Berry Asphalt Co, Magnolia, Ark
Coresit Waterproofing Corp, Chicago, Ill
Euclid Chem Co, Cleveland, O
Flexoid Prods, Inc, Boston, Mass
Lox Mfg Co, Kansas City, Mo
Master Builders Co, Cleveland, O
Sika Chem Corp, Passaic, N J
Smooth-On Mfg Co, Jersey City, N J

CLEANER AND CLEANSER

A modified soda which can be used by hand for general cleaning purposes and particularly recommended for bottle washing, dish washing, and as a general detergent. See also Sodas, Modified.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Du Pont de Nemours E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Angier Prods, Inc, Cambridge, Mass
Bestever Prods Co, Chicago, Ill
Bruce, E L, Co, Memphis, Tenn
Carpenter, W D, Co, Inc, Syracuse, N Y
Cooper, D C, Co, Chicago, Ill
Diversey Corp, Chicago, Ill
Fels, Mitchell, Germantown, Pa
Kemiko Mfg Co, Irvington, N J
Magnuson Prods Corp, Bklyn, N Y
Simmons Prods Co, Inc, N Y
Solvit Chem Co, Inc, Madison, Wis
Superior Prods Co, Somerville, Mass
White Rose Chem Co, Salem, Ore

CLEANER AND CLEANSER, BRUSH

Cabot, Samuel, Inc, Boston, Mass
Hardman, H V, Co, Inc, Belleville, N J
Penetone Co, Tenafly, N J

CLEANERS, ALKALI

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0955
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Cowles Chem Co, 7016 Euclid Av, Cleveland, O — Henderson 1-3400
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Dow Chem Co, Midland, Mich — Midland 500
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Ecclestone Chem Co, Inc, 2669-79 Gunin St, Detroit, Mich — Lo 7-4650
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Gavis and Co, 3124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kohnstamm, H & Co Inc, 83 Park Pl, N Y — Barclay 7-9760

★See ad in Catalog Section

VC CLEANSERS

VICAR® CLEANSERS

Write for information, stating purpose for which cleanser is desired.

VIRGINIA-CAROLINA CHEMICAL CORPORATION
CHEMICALS DIVISION • RICHMOND 5, VIRGINIA

CLEANERS, ALKALI (cont'd)

Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Chem Co, 1516 Industrial St, Los Angeles, Calif — Trinity 4055
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa — McKeesport 4-4278
Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va — 2-0113
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Cooper, D C, Co, Chicago, Ill
Dacar Chem Prods Co, Pittsburgh, Pa
Damon Chem Co, Inc, Alliance, O
Duhois Co, Cincinnati, O
Enthone, Inc, New Haven, Conn
Foy Electro-Chem Co, Ansonia, Conn
Hachik Bleach Co, Phila, Pa
Haviland Prods Co, Grand Rapids, Mich
Heathath Corp, Springfield, Mass
Hughes Chem Supply Co, Inc, Baltimore, Md
Industrial Chem Prods Co, Phila, Pa
Kemiko Mfg Co, Irvington, N J
Lanair Chem Corp, Chicago, Ill
Magnuson Prods Corp, Bklyn, N Y
Mertz, L Carlton, Co, Chicago, Ill
Milwaukee Chem Co, Milwaukee, Wis
Neilson Chem Co, Detroit, Mich
Parker Rust-Proof Co, Detroit, Mich
Peerless Chem Co, Baltimore, Md
Port Huron Detergent Co, Inc, Port Huron, Mich
Superior Prods Co, Somerville, Mass
Udylite Corp, Detroit, Mich
Western Soap & Sales Co, Spokane, Wash
Williams Chem Corp, Miami, Fla

SOLVAY PRODUCTS

SOLVAY CLEANSERS

There is a Solvay Cleanser for every need—for laundries, dairies, bottling and food plants, breweries, restaurants, hotels, etc. Write for literature on Solvay Cleansers.

SOLVAY SALES DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 Rector Street, New York 6, N. Y.

—BRANCH SALES OFFICES:—
Boston • Charlotte • Chicago • Cincinnati • Cleveland • Detroit • Houston
New Orleans • New York • Philadelphia • Pittsburgh • St. Louis • Syracuse

CLEANERS, ALUMINUM

Specially formulated compounds for cleaning dirty, greasy, discolored aluminum tanks, baking equipment, brewery vats, dairy equipment, kitchen utensils, laundry equipment, heavily soiled aluminum industrial parts and machinery, aluminum truck shells, etc. Should leave the surface bright.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Le 7-4650
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa — McKeesport 4-4278
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

CLEANERS, ALUMINUM (cont'd)

Cooper, D C, Co, Chicago, Ill
Crescent Chem Corp, Perth Amboy, N J
Duhois Co, Cincinnati, O
Foy Electro-Chem Co, Ansonia, Conn
Hughes Chem Supply Co, Inc, Baltimore, Md
Kemiko Mfg Co, Irvington, N J
Lanair Chem Corp, Chicago, Ill
Magnuson Prods Corp, Bklyn, N Y
Neilson Chem Co, Detroit, Mich
Nielco Chems, Detroit, Mich
Nu Steel Co, Chicago, Ill
Smith, K W, Chem Co, Los Angeles, Calif
Stull, A J, & Co, Phila, Pa

CLEANERS, BOILER-TUBE

Chemicals or compounds used to remove scale and rust in boiler tubes and to prevent further formation by neutralizing the soluble salts in the feed-water (largely carbonates of calcium and magnesium), precipitating them out of solution usually in the form of a colloidal sludge, which may be expelled from the boiler when it is "blown down." Various combinations of products are used to meet specific conditions, but the most ingredients include sodium silicate, trisodium phosphate, tannins, soda ash, sodium chromate, sodium alginate, starch, glucose, graphite, kerosene, barium compounds, etc. See also Boiler Compounds.

National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Superior Chem Wks, Louisville, Ky

CLEANERS, BOTTLE

Detergents of varying pH, etc., used to clean bottles where returned for re-use. Care must be taken as to choice of detergent depending upon whether cleaning operation is carried out by hand or in washing machines. See also: Alkali, Bottlers; Sodas, Modified; Cleaners, Dairy.

Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Cowles Chem Co, 7016 Euclid Av, Cleveland, O — Henderson 1-3400
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Napco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa — McKeesport 4-4278
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va — 2-0113
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700

An-Fo Mfg Co, Oakland, Calif
Bersworth Chem Co, Framingham, Mass
Cabell Chem Co, Huntington, W Va
Damon Chem Co, Inc, Alliance, O
Diversey Corp, Chicago, Ill
Huntington Labs, Huntington, Ind
Oakite Prods Inc, N Y

CLEANERS, DAIRY

Specially compounded substances to clean and disinfect dairies; containers and equipment, etc. Important properties include wetting, emulsifying, dissolving, deflocculating, and germicidal powers.

Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Cowles Chem Co, 7016 Euclid Av, Cleveland, O — Henderson 1-3400
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Le 7-4650
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600

DAIRY CLEANERS and SANITIZERS

specification formulas for particular cleaning and sanitizing operations.

ALEX C. FERGUSSON CO.
46 E. Oregon Avenue Philadelphia 48, Pa.
Phone Howard 5-5020

Branch Warehouse, Allentown, Pa.
Phone Allentown 7780

CLEANERS, DAIRY (cont'd)

Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa — McKeesport 4-4278
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va — 2-0113
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Amalgamated Chem Corp, Phila, Pa
An-Fo Mfg Co, Oakland, Calif
Beechem Labs, St Johns, Mich
Berkworth Chem Co, Framingham, Mass
Bonewitz Chems Inc, Burlington, Iowa
Cabell Chem Co, Huntington, W Va
Carlton Chem Co, Inc, N Y
Carpenter, W D, Co, Inc, Syracuse, N Y
Cooper, D C, Co, Chicago, Ill
Crescent Chem Corp, Perth Amboy, N J
Damon Chem Co, Inc, Alliance, O
Diversey Corp, Chicago, Ill
Dubois Co, Cincinnati, O
Haviland Prods Co, Grand Rapids, Mich
Heckwald Chem Co, San Fran, Calif
Kelite Prods, Inc, Los Angeles, Calif
Kemiko Mfg Co, Irvington, N J
Leich, Charles, & Co, Evansville, Ind
Magnuson Prods Corp, Bklyn, N Y
Natl Soap Co, Tacoma, Wash
Oakite Prods Inc, N Y
Port Huron Detergent Co, Inc, Port Huron, Mich
Solvit Chem Co, Inc, Madison, Wis
Western Soap & Sales Co, Spokane, Wash

CLEANERS, DRAIN PIPE

Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700

Cooper, D C, Co, Chicago, Ill
Damon Chem Co, Inc, Alliance, O
Eagle Soap Corp, Huntington, Ind
Kemiko Mfg Co, Irvington, N J
Wasco Eng Corp, N Y

CLEANERS, DRY

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Composition Materials Co, Inc, 28 W 44 St, N Y — Bryant 9-3277
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — ★Wilmington 4-5121
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Lo 7-4650
Ferguson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kohnstamm, H, & Co Inc, 85 Park Pl, N Y — Barclay 7-9760
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Afta Solvents Corp, N Y
An-Fo Mfg Co, Oakland, Calif
Chem Specialties Co, Los Angeles, Calif
Duso Chem Co, Inc, Poughkeepsie, N Y
Food Chem Co, Los Angeles, Calif
Natl Soap Co, Tacoma, Wash
Park Chem Co, Detroit, Mich
Zeen Chem Co, Cleveland, O

CLEANERS, FLOOR

A wide variety of detergent compounds used for mopping cement, wood, linoleum and other floors. Strength, alkalinity, etc., varies, stronger products being required for garage and factory floors, etc., than in home or office buildings.

Antara Prods, Gen'l Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Ferguson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Maier Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Adell Chem Co, Holyoke, Mass
Bruce, E L, Co, Memphis, Tenn
Buckingham Wax Co, Long Is City, N Y
Carpenter, W D, Co, Inc, Syracuse, N Y
Colloids Inc, Newark, N J
Crescent Chem Corp, Perth Amboy, N J
Damon Chem Co, Inc, Alliance, O
Gerson Stewart Corp, Cleveland, O
Harrison & Co, Inc, Haverhill, Mass
Hollingshead, R M, Corp, Camden, N J
Horn, A C, Co, Inc, Long Is City, N Y
Kleen-Glo Chem Corp, N Y
Oil-Kraft Inc, Cincinnati, O
Peerless Chem Co, Baltimore, Md
Robbins, Geo B, Disinfectant Co, Inc, Cambridge, Mass
Rodgers, Thos T, Chem Labs, Milwaukee, Wis
Smith, E W, Chem Co, Los Angeles, Calif
Standard Chem Co, Phila, Pa
Vestal Chem Co, St Louis, Mo
Warren Refg & Chem Co, Cleveland, O

CLEANERS, FRUIT

Preparations used to wash off and remove oil and grease acting as a binder for smut, dirt, and various chemicals with which the fruit has been sprayed; also to remove spores, molds, fungi, and other micro-organisms which attack the surface of the fruit; should be nontoxic to humans and should leave the fruit in a thoroughly clean state.

Antara Prods, Gen'l Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700

Oil-Kraft Inc, Cincinnati, O

CLEANERS, GLASS

Wide variety of detergents offered for cleaning and polishing glassware, windshields, etc. Relatively new are preparations that require no water, are sprayed on and then wiped to give a clear, bright surface.

Ferguson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Bruce, E L, Co, Memphis, Tenn
Central Illinois Labs, Inc, Peoria, Ill
Colonial Chem Co, Seattle, Wash
Peerless Chem Co, Baltimore, Md
Stewart Chem Prod Co, Longmont, Colo

CLEANERS, LEATHER

Preparations used industrially in the shoe factory to remove surface grime: Should not affect color and should leave the leather soft and pliable and without any feeling of harshness. Each type of leather requires different cleaners.

Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Stahl Finish Co, 23 Calier St, Peabody, Mass — Peabody 371

Afta Solvents Corp, N Y

metso cleaners for industry

Metasilicate ($Na_2SiO_3 \cdot 5H_2O$)
Sesquisilicate ($Na_3HSiO_4 \cdot 5H_2O$)

Vigorous alkaline power is balanced with the right soluble silica content which accelerates cleaning action. This combination also prevents re-deposition of removed soil and protects sensitive metals.

For private compounds and cleaners — add these detergent qualities plus attractive appearance, uniform dependability. Easy to work into your formulas.

PHILADELPHIA QUARTZ COMPANY
1168 Ledger Building, Phila. 6, Pa.

CLEANERS, METAL

Special detergents for metal surfaces, removing dirt, grime, grease, oil, etc., previous to finishing, electroplating, etc., also products used for cleaning after such operations. Many of the more common detergents are used; in recent years special advances have been made, new products, new technique developed such as electrolytic cleaning in soap baths, electrolytic acid cleaning, vapor degreasing, use of solvent soaps, orthosilicates, metaphosphates, various new silicates, alkylated naphthalene sulfonic acids, sulfonated fatty alcohols (so-called wetting agents), naphthenic acids, etc.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Antara Prods, Gen'l Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540

★See ad in Catalog Section

CLEANERS, METAL (cont'd)

C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Cowles Chem Co, 7016 Euclid Av, Cleveland, O — Henderson 1-3400
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Marathon Corp, Chem Div, Rothschild, Wis
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa — McKeesport 4-4278
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Amer Chem Paint Co, Ambler, Pa
Berman Chem Co, Toledo, O
Bruce, E L, Co, Memphis, Tenn
Circo Prods Co, Cleveland, O
Cooper, D C, Co, Chicago, Ill
Crescent Chem Corp, Perth Amboy, N J
Donald Sales & Mfg Co, Milwaukee, Wis
Enthone, Inc, New Haven, Conn
Foy Electro-Chem Co, Ansonia, Conn
George Chem Co, Boston, Mass
Hughes Chem Supply Co, Inc, Baltimore, Md
Impoll Co, Inc, Jersey City, N J
Kerns, L R, Co, Chicago, Ill
Macco Prods Co, Chicago, Ill
Magnuson Prods Corp, Bklyn, N Y
Milwaukee Chem Co, Milwaukee, Wis
Neilson Chem Co, Detroit, Mich
Nielco Chems, Detroit, Mich
Nu Steel Co, Chicago, Ill
Oakite Prods Inc, N Y
Rodgers, Thos T, Chem Labs, Milwaukee, Wis
Smith, E W, Chem Co, Los Angeles, Calif
Stewart Chem Prod Co, Longmont, Colo
Stull, A J, & Co, Phila, Pa

CLEANERS, PAINT

Antara Prods, Genl Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nitrogen Prods Inc, 450 7 Av, N Y — Bryant 9-1045
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va — 2-0113
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Fond Chem Co, Los Angeles, Calif
Oakite Prods Inc, N Y

CLEANERS, PAPER FELTS

Washing compounds specially formulated to penetrate felts used in paper manufacture to remove dirt, pitch, metallic soaps, insoluble sticky materials, etc.

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Cowles Chem Co, 7016 Euclid Av, Cleveland, O — Henderson 1-3400
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726

Adell Chem Co, Holyoke, Mass
Oakite Prods Inc, N Y
Magnuson Prods Corp, Bklyn, N Y

CLEANERS, PHOTOGRAPHIC FILMS

Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000
Takamine Lab, Inc, 193 Arlington Av, Clifton, N J — Prescott 9-4776
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Afta Solvents Corp, N Y

CLEANERS, PIPE

Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

CLEANERS, PRINTER'S TYPE

Specially formulated solvents for ink for use on typewriters, printers' type, stencil disks, multigraph and mimeograph machines and equipment, etc. Should be harmless to hands, furniture, floors, enamels, etc.

C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650

CLEANERS, PRINTER'S TYPE (cont'd)

Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Lo 7-4650
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
United Distillers of Amer Inc, 350 5 Av, N Y — Lackawanna 4-3570
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Braden Sutphin Ink Co, Cleveland, O
Impoll Co, Inc, Jersey City, N J
Herbert Chem Co, Cincinnati, O

CLEANERS, RUBBER

Products, usually in the liquid or semi-liquid state, used to remove dirt, grime, grease, stains, etc., from rubber floors, tile, etc. Should have no deleterious effect on the rubber; should leave the natural resilience but should not react chemically in such a way that the rubber becomes soft or plastic and easily scuffed.

Nitrogen Prods Inc, 450 7 Av, N Y — Bryant 9-1045
Eagle Soap Corp, Huntington, Ind
Pannier Corp, Pittsburgh, Pa

CLEANERS, RUG

Specialized detergents and solvents which remove dirt, grease, grime, etc., from rugs, upholstery, etc., and renew and freshen. Must not impair colors or shrink material treated.

Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Lo 7-4650
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Afta Solvents Corp, N Y
Buckingham Wax Co, Long Is City, N Y
Damon Chem Co, Inc, Alliance, O
Dryburgh & Sons, Inc, Milwaukee, Wis
Eagle Soap Corp, Huntington, Ind
Fond Chem Co, Los Angeles, Calif
Huntington Labs, Huntington, Ind
Kleen-Glo Chem Corp, N Y
Magicleaner Co, Newark, N J
Zeen Chem Co, Cleveland, O

CLEANERS, STONE

Specialized detergents for renovating, bleaching and restoring the natural appearance and beauty of granite, tile, brick, porcelain, and terra cotta.

Antara Prods, Genl Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Lo 7-4650
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200

CLEANERS, SWIMMING POOL

Special detergents for cleaning and bleaching vitrified tile, removing scum, grease, lime stains and other incrustations, also stains caused by oxidation.

Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Parker, Herbert H, 2 Bway, N Y — Whitehall 4-7996
Sterwin Chems, Inc, 1450 Bway, N Y
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700

Berman Chem Co, Toledo, O

CLEANERS, UPHOLSTERY

Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Afta Solvents Corp, N Y
Dryburgh & Sons, Inc, Milwaukee, Wis
Fond Chem Co, Los Angeles, Calif
Magicleaner Co, Newark, N J
Park Chem Co, Detroit, Mich
Smith, E W, Chem Co, Los Angeles, Calif
Zeen Chem Co, Cleveland, O

CLEANERS, WALL PAPER

General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923

CLEANING FLUIDS

Various solvents, often with perfume added, used for complete or partial immersion of garments for removing grease and other stains.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Dow Chem Co, Midland, Mich — Midland 500

*See ad in Catalog Section

CLEANING FLUIDS (cont'd)

Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington — Wilmington 4-5121
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington — Wilmington 4-5121
Ferguson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nitrogen Prods Inc, 450 7 Av, N Y — Bryant 9-1045
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wollen Chem & Supply Co, 126 G Av, Paterson, N J — Lambert 3-3600

Afta Solvents Corp, N Y
Amer Writing Ink Co, Inc, Boston, Mass
Beechem Labs, St Johns, Mich
Bostwick Labs Inc, Bridgeport, Conn
Colloids Inc, Newark, N J
Dixo Co, Garfield, N J
Elkay Prods Co, N Y
Fond Chem Co, Los Angeles, Calif
Fort Pitt Chem Co, Pittsburgh, Pa
Imperial Prods Co, Phila, Pa
Joy Chem Co, Pawtucket, R I
Kleen-Glo Chem Corp, N Y
Magicleaner Co, Newark, N J
Patek & Co, San Fran, Calif
Randall Prods Mfg Co, N Y
Thompson Chem Co, Pawtucket, R I
White Rose Chem Co, Salem, Ore
Zeen Chem Co, Cleveland, O

COAL TREATING COMPOUNDS

Dow Chem Co, Midland, Mich — Midland 500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

COATINGS, ACID-PROOF

Products formulated for use as linings for storage tanks, carboys, etc.; in chemical and chemical process plants as coatings for all steel, tile, or other construction for protection from corrosive fumes; and, in general, to provide a protective surface wherever exposed to the action of the common acids.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Atlas Mineral Prods Co, Mertztown, Pa — Topton 37
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

'Boruski, Jr, E F, N Y
Carboline Co, St Louis, Mo
Cellcote Co, Cleveland, O
Crossfield Prods Corp, Los Angeles, Calif
Electro Chem Supply & Eng Co, Emmaus, Pa
Euthone, Inc, New Haven, Conn
Industrial Chem Co, Berkeley, Calif
Irvington Varnish & Insulator Co, Irvington, N J
Lowe Bros Co, Dayton, O
Nukem Prods Corp, Buffalo, N Y
Pacific Plastics & Chem Co, Redwood City, Calif
Reardon Industries, Cincinnati, O
Rulon, Ralph V, Inc, Phila, Pa
Tretolite Co, St Louis, Mo
United Chromium Inc, N Y
U S Varnish Co, Hasbrouck Hghts, N J
Varcum Chem Corp, Niagara Falls, N Y
Varnitco Co, Burbank, Calif
Western States Lacquer Co, Los Angeles, Calif

COATINGS, ALKALI-PROOF

Preparations employed in wide variety of applications to supply protection against alkalies and alkaline fumes. Products are formulated from pitches, tars, synthetic resins, rubber, etc. Metal coatings are also widely used.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Atlas Mineral Prods Co, Mertztown, Pa — Topton 37
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Boruski, Jr, E F, N Y
Carboline Co, St Louis, Mo
Cellcote Co, Cleveland, O
Crossfield Prods Corp, Los Angeles, Calif
Industrial Chem Co, Berkeley, Calif
Irvington Varnish & Insulator Co, Irvington, N J
Nukem Prods Corp, Buffalo, N Y
United Chromium Inc, N Y
U S Varnish Co, Hasbrouck Hghts, N J
Varcum Chem Corp, Niagara Falls, N Y
Varnitco Co, Burbank, Calif

COATINGS, ASPHALT

Pure asphalt in a liquid form, usually reinforced with asbestos fibres for dressing old and leaky roofs.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Carey, Philip, Mfg Co, Cincinnati, O — Valley 3000

Witco ASPHALTS

Three manufacturing plants
Perth Amboy - Chicago - Lawrenceville

"Pioneer" ASPHALTS of all grades and for all purposes.

MR's for rubber compounding.

WITCOTE #4 Automobile undercoating.

RUST INHIBITORS and METAL PROTECTORS

WITCO CHEMICAL COMPANY

295 MADISON AVENUE · NEW YORK 17, NEW YORK

BOSTON • CHICAGO • HOUSTON • CLEVELAND
AKRON • LOS ANGELES • SAN FRANCISCO
LONDON AND MANCHESTER, ENGLAND

COATINGS, ASPHALT (cont'd)

Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Asphalt Emulsion Service Inc, N Y
Berry Asphalt Co, Magnolia, Ark
Eagle Picher Co, Cincinnati, O
Flexoid Prods, Inc, Boston, Mass
Herbert Chem Co, Cincinnati, O
Metalcrete Corp, Cleveland, O
Montgomery Bros Inc, Phila, Pa
Pruett-Schaeffer Chem Co, Pittsburgh, Pa
Ruberoid Co, N Y
Schaffer-Moss Chem Corp, Pittsburgh, Pa
United Chromium Inc, N Y

COATINGS, BOILER SETTING

Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600

Ducar Chem Prods Co, Pittsburgh, Pa
Metalcrete Corp, Cleveland, O
Standard Asbestos Mfg Co, Chicago, Ill

COATINGS, CABLE

Preparations applied to cable to strengthen against the force of sudden strain; to provide a waterproof and weatherproof protective coating.

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Pyroxylin Prods, Inc, Chicago, Ill
Raffi & Swanson, Inc, Chelsea, Mass
Toch Bros Inc, Staten Is, N Y
United Chromium Inc, N Y
United Lacquer Mfg Corp, Linden, N J

COATINGS, CANVAS

Special coatings used on canvas, boat covers, awnings, etc., to preserve by preventing mold and by waterproofing; to revivify old materials. Supplied also in the form of paint where color is required.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Textile Proofers Inc, Jersey City, N J
United Chromium Inc, N Y

COATINGS, CEMENT

Compounds used to decorate and seal the pores of and to waterproof stucco, concrete and cement, and to decorate unsightly stained surfaces. See also Paints, Cement.

Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Angier Prods, Inc, Cambridge, Mass
Industrial Chem Co, Berkeley, Calif
Minnesota Paints, Inc, Minneapolis, Minn
Sika Chem Corp, Passaic, N J
United Chromium Inc, N Y

COATINGS, FIREPROOF

Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Eagle Picher Co, Cincinnati, O

COATINGS, FLEXIBLE (for Rubber, Textiles, Leather, Paper)

Various rubber, pyroxylin or other cellulose compositions, synthetic resins, gums, waxes, etc. which give to finished goods surface protection, improved appearance, water, oil, gas, and chemical resistances, resiliency, flexibility, ease of cleaning, longer wear, etc.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171

★See ad in Catalog Section

COATINGS, FLEXIBLE (cont'd)

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Boruski, Jr, E F, N Y — United Chromium Inc, N Y
Breetwor, I N, & Assocs, Los Angeles, Calif

COATINGS, LINOLEUM

Preparations in the liquid, paste, or wax form, applied to linoleum to fill the pores, prevent dirt, grime, grease, water, etc., from penetrating the fabric, to preserve and beautify by providing a high polish. See also Lacquers, Linoleum.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060
Industrial Chem Co, Berkeley, Calif

COATINGS, LIQUID RUBBER

Specialized latex preparations, with or without color, used commonly in a dipping process, to impart a protecting and beautifying, flexible rubber finish to a wide variety of articles.

Boruski, Jr, E F, N Y — Rubba Inc, N Y
Montgomery Bros Inc, Phila, Pa

COATINGS, OIL-PROOF

Preparations (applied to fabrics, etc.), which possess unusual resistance to the actions of petroleum products such as gasoline, kerosene, lubricating oils, greases, etc.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907
Boruski, Jr, E F, N Y — Minnesota Mining & Mfg Co, Detroit, Mich
Burtonite Co, Nutley, N J — Tretolite Co, St Louis, Mo
Irvington Varnish & Insulator Co, — United Chromium Inc, N Y Irvington, N J

COATINGS, PIPE—see also Coatings, Asphalt

Asphalt-base paints, chemically and electrically inert, waterproof and water repellent, for protecting underground water lines, culverts, pipes, etc.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Eagle Picher Co, Cincinnati, O — Pruett Schaeffer Chem Co, Pittsburgh, Pa

COATINGS, PLATING RACKS

Preparations applied to plating racks in electroplating to prevent their corrosion, contamination, and the contamination of the solution.

Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
United Chromium Inc, N Y

COATINGS, RUBBER

Special rubber finishes produced either from liquid latex, synthetic rubber in the liquid state, or from natural rubber dissolved in suitable, rapidly evaporating solvents.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Collord Inc, Detroit, Mich — Minnesota Mining & Mfg Co, Detroit, Mich
Electro Chem Supply & Eng Co, Emmaus, Pa — Union Bay State Co, Inc, Cambridge, Mass

COATINGS, STEEL BARRELS AND DRUMS

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Breetwor, I N, & Assocs, Horn, A C, Co, Inc, Long Is City, N Y — Pruett-Schaeffer Chem Co, Pittsburgh, Pa
Interchemical Corp, Newark, N J — Standard Glue Co, N Y
Old Colony Paint & Chem Co Labs, Los Angeles, Calif — United Chromium Inc, N Y

COATINGS, TAR

Products with a coal-tar or petroleum-tar base used as roof coatings for rolling mills, foundries, machine shops, warehouses, train and dock sheds, chemical plants, factories and garages, etc.; also for flashings, copings, gutters, spoutings, foundations and sills, boiler masonry, cisterns, tanks, etc. Manufactured in varying consistencies to be brushed or troweled.

COATINGS, TAR (cont'd)

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Huggins, James, & Son, Malden, Mass — Ruberoid Co, N Y

COATINGS, WATERPROOF

Preparations formulated from a wide variety of raw materials and applied to pipes, walls, roofs, exposed surfaces of all types, etc., to help prevent the seepage of water, dampness, etc., and the resulting corrosion.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907
Amer Fluresit Co, Cincinnati, O — Metalcrete Corp, Cleveland, O
Berry Asphalt Co, Magnolia, Ark — Minnesota Mining & Mfg Co, Detroit, Mich
Crossfield Prods Corp, Los Angeles, Calif — Ruberoid Co, N Y
Eagle Picher Co, Cincinnati, O — Sika Chem Corp, Passaic, N J
Ebony Paint Mfg Co, Kansas City, Mo — Sullivan Co, Memphis, Tenn
Euclid Chem Co, Cleveland, O — Textile Proofers Inc, Jersey City, N J
Huggins, James, & Son, Malden, Mass — Toch Bros Inc, Staten Is, N Y
Kepec Chem Corp, Milwaukee, Wis — Tretolite Co, St Louis, Mo
Marblette Corp, Long Is City, N Y

COATINGS, WRINKLE

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Lowe Bros Co, Dayton, O — Old Colony Paint & Chem Co Labs, Los Angeles, Calif
Minnesota Paints, Inc, Minneapolis, Minn

COLOR LAKES, COSMETIC

Consists generally of suitable aniline colors precipitated on aluminum hydroxide, blanc fixe or other harmless substrata. These color lakes must naturally be extraordinarily free from such heavy metals as lead, arsenic, mercury, etc. Their tinctorial power is high. In lipstick and rouge they are employed almost exclusively. In face powder for toning—, largely in eyeshadows—somewhat in creams—but not often in liquids and lotions due to their tendency to bleed (run).

Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Cosmetic Mfg Supply Co, Chicago, Ill — Palmer Supplies Co, Cleveland, O

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

COLORS, AIR-BRUSH

Wide variety of colors formulated for industrial use in connection with automatic application to automobiles, furniture, artificial leather, etc.

Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Grumbacher, M, N Y — S S Rubber Cement Co, Chicago, Ill

COLORS, ARTISTS'

Specially finely ground or divided pigments used by artists for tinting purposes; either oil or water soluble.

Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Fezandie & Sperrle, Inc, 205 Fulton St, N Y — Cortlandt 7-1460
General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575

COLORS, ARTISTS' (cont'd)

Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Grumbacher, M, N Y — Vogel Luminescence Corp, San Fran, Calif
S S Rubber Cement Co, Chicago, Ill

PERSONALIZED

COLOR SERVICE

You may feel perfectly free to bring us your technical color problems. We have built our business on the foundation of rendering personalized color service. You will find us glad to work with you and to supply samples without cost or obligation to you.

FEZANDIE & SPERRLE, INC.
205 FULTON STREET
NEW YORK 7, N. Y.

COLORS, BUTTER AND CHEESE

Natural and synthetic dyestuffs used to tint butter, oleomargarine and cheese. Use of certified colors only is permitted in food products to enhance their appearance and make them more pleasing to the eye, but they are forbidden to hide inferiority or deceive the purchaser. Users should be fully familiar with Federal Food and Drug Act and state and local regulations. In almost every case where artificial color is used, it must be declared on the label—the suggested legends being: "Artificially Colored." "Artificially Colored with Certified Color," "Artificially Colored with Vegetable Color," or some such similar phraseology. See Colors, Food.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

COLORS, CARAMEL

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Berghausen, E, Chem Co, Cincinnati, O — Shields Buying Service, N Y
Fries & Fries Inc, N Y

COLORS, CARBON PAPER

Dyes soluble and insoluble in wax, prepared specially for coloring the wax which coats the special type of tough thin paper.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

IRON BLUES — PRUSSIAN—CHINESE—MILORI BRONZE—TONING—POTASH
CHROME GREENS — ALL SHADES ALL STRENGTHS
UTILITY GREENS — PERMANENT—ACID AND ALKALI RESISTANT
Superior in Quality due to Specialization
UTILITY COLOR COMPANY, INC.
377-99 Frelinghuysen Ave. Newark 5, N. J.
Distributors:
Fred L. Brooke Co., 3340 No. Halsted St., Chicago 13, Ill.
Palmer Supplies Co., 1531 West 25th St., Cleveland 13, Ohio
Palmer Supplies Co., Times Star Bldg., Cincinnati, Ohio
Cable Address: "Utility" Newark, N. J. ESTABLISHED 1917

COLORS, CARBON PAPER (cont'd)

Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Amer Lignite Prods Co, Ione, Calif — Palmer Supplies Co, Cleveland, O
Holland Color & Chem Co, Holland, Mich

COLORS, CERAMIC

Ceramic chemicals, mineral and pigmented oxides, overglaze and underglaze fluxed colors, may all be classed as ceramic colors. They are used for body and decorative works on glass, china and pottery.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870

DU PONT
Reg. U.S. Pat. Off.
COLORS and DECORATIONS
for Glass, Pottery and Enamel
Precious Metal Decorations
Acid- and Alkali-Resistant Glass Colors
Slip and Glaze Stains
Color Oxides
Silver Compositions for Conductive Coatings
E. I. DU PONT DE NEMOURS & CO. (INC.)
ELECTROCHEMICALS DEPARTMENT
WILMINGTON DELAWARE

Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
★Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

HARSHAW
THE HARSHAW CHEMICAL CO.
Cleveland 6, Ohio
AND PRINCIPAL CITIES
CERAMIC COLORS
A complete line of colors, minerals, opacifiers, and chemicals for pottery, glass, enamel, brick, tile, and terra cotta.

COLORS, CERAMIC (cont'd)

Ceramic Color & Chem Mfg Co, New Brighton, Pa
Mason Color & Chem Wks, Inc, E Liverpool, O
Reusche, L, & Co, Newark, N J
Robins, G S, & Co, St Louis, Mo
Shepherd Chem Co, Cincinnati, O
Vitro Mfg Co, Pittsburgh, Pa

COLORS, CERAMIC RESISTANT

Fluxed colors properly compounded, which are resistant to the action of acid and alkali solutions. Generally used on glass and chinaware.

Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Vitro Mfg Co, Pittsburgh, Pa

INTERSTATE COLOR CO.
INCORPORATED
5 Beekman Street, New York City 7
IMPORTERS EXPORTERS
Certified and Technical Colors
Certified Food and Cosmetic Colors
Lake Colors
Alcohol
and Oil Soluble Colors
Soap Colors
Chlorophyll

COLORS, COSMETIC

Color suitable by reason of purity, non toxicity and coloring properties for cosmetics. Hence they may be mineral such as ferric oxide, ochres (and synthetic ochres); vegetable such as chlorophyll, anatto, etc.; animal such as cochineal (carmine); organic such as suitable aniline colors; or organic color lakes (aniline colors precipitated on inorganic bases).

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Sterwin Chems, Inc, 1450 Bway, N Y
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749

Cosmetic Mfg Supply Co, Chicago, Ill
Laning, E M, Co, Irvington, N J
Revson, R F, Co, N Y
Sachs Mfg Co, Pittsburgh, Pa

EST. 1851
MANUFACTURERS OF
ATLAS CERTIFIED COLORS
FOOD COLORS AND COSMETIC COLORS
H. KOHNSTAMM & CO., INC.
Manufacturing Chemists • Established 1851
83-93 Park Place, New York 7 — 11-13 E. Illinois Street, Chicago 11

COLORS, FOOD

Special colors, derived synthetically or from natural raw materials or used to impart color in butter, oleo, candy, ice cream, confectionery, soft drinks, various foods, etc. Usually supplied in two types, water soluble and oil soluble. U. S. Dept. of Agriculture's Food and Drug Administration require the use as food dyes only those duly certified as to purity and harmlessness to human beings. See also Colors, Butter and Cheese.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000

MM&R Certified! FOOD COLORS
MM&R Food Colors are certified with U. S. Dept. of Agriculture. Famous for quality, purity and uniformity. Extensively used for all food products.
MAGNUS, MABEE & REYNARD, INC.
16 DESBROSSES ST. NEW YORK, N. Y. — 221 N. LA SALLE ST. CHICAGO, ILL.

COLORS, FOOD (cont'd)

Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Sterwin Chems, Inc, 1450 Bway, N Y
Weeks, O J, Co Inc, 16 Hudson St, N Y — Barclay 7-2091

Laning, E M, Co, Irvington, N J
Palmer Supplies Co, Cleveland, O
Ransom, L E, Co, N Y
Shields Buying Service, N Y

Specify Parakeet
TRADEMARK
BRAND OF CERTIFIED FOOD COLORS
Sterwin Chemicals Inc.
SUBSIDIARY OF STERLING DRUG INC.
1450 BROADWAY, NEW YORK 18, N. Y.
445 Lake Shore Drive, Chicago 11, Ill.
WORLD'S LARGEST SUPPLIERS OF VANILLIN

COLORS, GLASS

Liquids often containing resinates or similar organic compounds of various metals, the oxides of which form colors or pigments used for decorating pottery glass, tile, terra-cotta or similar ceramic surfaces. Another type of colors is that which consists of finely ground mixtures of pigments and low-melting glasses. This type is usually "fired" so that the color is directly incorporated into the finished article and is not simply a finish coat.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

Ceramic Color & Chem Mfg Co, New Brighton, Pa
McKay Chems Co, Inc, Bklyn, N Y
Reusche, L, & Co, Newark, N J

COLORS, INK

Dyes and pigments employed as the tinting agent. A limited number of water soluble dyes are used to make writing inks which contain water as the liquid medium. Other dyes, soluble in glycerine, are used in stamping, copying, and hectograph inks. Still others, soluble in such organic solvents as alcohols, ketones, hydrocarbons, esters, acids, and aldehydes, are used to make aniline and intaglio printing inks. Very definite limitations are imposed on the choice of ink colors, such as pigment particle size, brilliancy, intensity, resistance to light, oil absorption, tinting strength, bleeding, resistance, to the chemical action of the products they may come in intimate contact with, such as adhesive pastes, vinegar, wet soaps, waxed wrappers, alcohol, lard, ammonia, etc. Colors must be carefully chosen for each type and use of ink made. See also Colors, Printing Ink.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121

★See ad in Catalog Section

COLORS, INK (cont'd)

Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500

FILO COLOR & CHEMICAL CORP.
202 E. 44 ST. • NEW YORK 17, N. Y.
PIGMENT COLORS
A Complete Range of Chemical Pigments And Inorganic Both Organic
FILO
CABLE: FILOCOLOR

Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

Diamond Ink & Adhesive Co, Milwaukee, Wis
Grumbacher, M, N Y
Holland Color & Chem Co, Holland, Mich
Palmer Supplies Co, Cleveland, O
S S Rubber Cement Co, Chicago, Ill

COLORS, INK PRINTING

Dyes and pigments employed in ink manufacture are of various types:—1. Dyes of satisfactory light resistance and minimum bleeding tendencies that can be used without conversion to lakes; often termed dye-pigments, of which toluidine red is an example; 2. Basic dyes "laked" by suitable acids; an example of which is the combination of methyl violet with phosphotungstic acid; 3. Dyes containing sulfonic acid groups which combine with basic substances (metallic compounds) for form pigments—these are acid dyes "laked" by suitable metals, an example of which is the combination of lithol red with barium chloride to form the red pigment, barium lake. Taree classes of inorganic pigments are recognized based on color and opacity:—1. Substances derived from lead, iron, chromium, sulfur, cobalt, cadmium, and other chemical elements including carbon. These are competitive in inks with the organic pigments and at times are mixed with them in the same ink. An example of an inorganic pigment is chrome yellow; 2. Colorless, transparent substances derived from aluminum, magnesium and calcium which behave in inks like the colored pigments except that they have no color and act only as fillers and add opacity to the ink; known as opaque whites. Good ink pigments are of small particle size so that the pigment can readily be carried by the ink vehicle from the ink fountain to the paper. Good halftone printing requires even smaller particle size of the pigment to prevent filling of the screens.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120

HARMON COLOR WORKS, INC.
•
Organic Pigment Colors
for
Industrial & Automotive Finishes
Linoleum & Asphalt Tile
Printing Inks
Plastics
Rubber
•
P. O. Box 14 Hawthorne, N. J. Lambert 3-2900

COLORS, INK PRINTING (cont'd)

Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

Crowe Printing Ink Co, Phila, Pa
Holland Color & Chem Co, Holland, Mich
Johnson, Charles Eneu, & Co, Phila, Pa
Osborn, C J, Co, N Y
Senefelder Co, Inc, N Y
Warwick Chem Co, Long Is City, N Y

COLORS, JAPAN

Pigments ground especially fine for incorporation in Japans so that the finished products work up smooth, have an even consistency, and break up easily with turpentine.

Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

S S Rubber Cement Co, Chicago, Ill

COLORS - UNIFORM UNEXCELLED QUALITY
ORGANIC & INORGANIC PIGMENTS
Ansbacher-Siegle
CORPORATION
Rosebank, Staten Island New York

COLORS, LACQUER

Colors of low oil absorption, chemically inert (mainly pigments) possessing good permanency, soft texture, great tinctorial strength and good hiding power. The colors are ground by various means in some ingredient of a lacquer and the paste so formed is then mixed into the remaining ingredients of the lacquer to produce a finished colored lacquer.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060
Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Claremont Pigment Dispersion Corp, Bklyn, N Y
Egyptian Lacquer Mfg Co, Newark, N J
Holland Color & Chem Co, Holland, Mich
Natl Chem & Plastics Co, Baltimore, Md
S S Rubber Cement Co, Chicago, Ill
Williams, C K, & Co, E St Louis, Ill

*See ad in Catalog Section

COLORS, LINOLEUM

Natural colors, such as ochres, siennas, umbers, metallic oxides, etc., and also coal-tar dyes used to impart color and design in the manufacture of linoleum, oil-cloth, etc.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Holland Color & Chem Co, Holland, Mich
Williams, C K, & Co, E St Louis, Ill

COLORS, LIQUID SOAPS

Selected dyes used for coloring soaps must withstand weak alkali; among those so employed are quinoline yellow, tartrazine, citronine, acid oranges, rhodamines, acid scarlets, direct cotton browns, violets, greens, etc.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

Ox Color Wks, N Y
Pacific Plastics & Chem Co, Redwood City, Calif
Palmer Supplies Co, Cleveland, O
Penetone Co, Tenafly, N J
Sachs Mfg Co, Pittsburgh, Pa

COLORS, MORTAR

Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757

Clinton Metallic Paint Co, Clinton, N Y
Horn, A C, Co, Inc, Long Is City, N Y
Osborn, C J, Co, N Y
Reardon Industries, Cincinnati, O
Tamms Silica Co, Chicago, Ill
Williams, C K, & Co, E St Louis, Ill

COLORS, OVERGLAZE

Properly fluxed and compounded colors of the enamel, matt or satin and tinting color class used as decoration and applied after glazing. Are used for spray and hand painting—tinting—dry or wet grounding—and printing on china—stoneware—and enameled steel. Usually fired within the range of 740-800° C. cone 017-015.

Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Ceramic Color & Chem Mfg Co, New Brighton, Pa
Mason Color & Chem Wks, Inc, E Liverpool, O
Reusche, L, & Co, Newark, N J

COLORS, PAINT SPRAY BOOTH

Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

COLORS, PASTE

Finely ground pigments dispersed with sufficient oil to form a paste and used in the formulation of paints, enamels, etc.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

Holland Color & Chem Co, Holland, Mich

COLORS, PERFUME

Mixed coal tar dyes specially prepared to produce a wide variety of bright shades. Soluble in water and alcohol. It should be noted that very small quantities should be used, as their tinctorial power is so great that liquids in which they are incautiously used may stain.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Florasynth Labs Inc, 153 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

Cosmetic Mfg Supply Co, Chicago, Ill

COLORS, PHOTOGRAPHIC

Products for coloring photographic prints by hand. These include oil colors, water colors, and pastels.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

Grumbacher, M, N Y

COLORS, PHOTOGRAPHIC (cont'd)

COLORS, PLASTIC

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Mearl Corp, 153 Waverly Pl, N Y — Chelsea 2-3680
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Argus Chem Lab Inc, Bklyn, N Y
Keiner Co, Newark, N J
Osborn, C J, Co, N Y
Union Chem Corp, Newark, N J
Williams, C K, & Co, E St Louis, Ill

COLORS, RUBBER

Mineral pigments or synthetic dyes (usually in the form of lakes, bound to a mineral base) not greatly affected by heat, steam, or sulfur: for white shades zinc oxide and the titanium pigments are largely used; for black, carbon black, lampblack, or one of the charcoal blacks; for blue, ultramarine is often used; chrome pigments, for green; zinc chromate is standard yellow pigment; cadmium sulfides are available in various yellow and orange shades; golden antimony, for orange shades, or ochres where color value at low cost is the deciding factor; for crimson shades iron oxide red, crimson antimony, and vermilions are extensively used. See also Dyes, Rubber; Pigments.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
General Color Co, Inc, 265 Wright St, Newark, N J — Bigelow 8-2575
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
★Monsanto Chem Co, Rubber Service Dept, 920 Brown St, Akron, O
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Utility Color Co Inc, 377-399 Frelinghuysen Av, Newark, N J — Bigelow 8-2757
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Williams, C K, & Co, E St Louis, Ill

COLORS, RUBBER-WHITE

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Chem & Pigments Co, Oakland, Calif
Edgar Bros Co, Metuchen, N J

COLORS, SHOW CARD

Special colors used by artists, sign-writers, dispay men, etc. Should be non-bleeding, opaque, bright, free-flowing, should not rub or chip off, should dry rapidly to a smooth mat finish.

Ansbacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

Grumbacher, M, N Y
S S Rubber Cement Co, Chicago, Ill
Vogel Luminescence Corp, San Fran, Calif

COLORS, UNDERGLAZE

A ceramic decoration applied to ware before glazing or an incise decoration, embossing or inlaying. Colors are used as body or glaze stain for china—stoneware—terra cotta—brick—enameled steel and ironware. Colors used under suitable glaze up to Cone 8 (1290° C.).

Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Ceramic Color & Chem Mfg Co, New Brighton, Pa
Mason Color & Chem Wks, Inc, E Liverpool, O
Reusche, L, & Co, Newark, N J

COLORS, VARNISH

Dyes soluble in alcohol are largely used: basic dyes, monoazo dyes (which do not contain sulfonic acid groups, such as aniline coupled with beta-naphthol), spirit blue, induline and nigrosine before they are sulfonated; sulfonated rosanilines, etc., are often so employed.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Anshacher-Siegle Corp, Chestnut Av, Rosebank, N Y — Gibraltar 7-8600
Brooklyn Color Wks, Inc, Morgan & Norman Avs, Bklyn, N Y — Evergreen 8-8440
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Minnesota Paints, Inc, Minneapolis, Minn — Williams, C K, & Co, E St Louis, Ill
Senefelder Co, Inc, N Y

CONCRETE SURFACE TREATMENT

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Ceresit Waterproofing Corp, Chicago, Ill
Concrete Specification Surfacing Co, N Y
Hern, A C, Co, Inc, Long Is City, N Y
Master Builders Co, Cleveland, O
Metalcrete Corp, Cleveland, O
Sika Chem Corp, Passaic, N J
Smooth-On Mfg Co, Jersey City, N J
Sullivan Co, Memphis, Tenn
Tufcrete Co, Inc, Des Moines, Iowa

COPPER FUNGICIDES

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Mountain Copper Co, Ltd, 216 Pine St, San Fran, Calif — Exbrook 2-3928
Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Phelps Dodge Refg Corp, 40 Wall St, N Y — Whitehall 4-0560
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201
Miller Chem Co, Omaha, Nebr
Rodgers, Thos T, Chem Labs, Milwaukee, Wis

CORE COMPOUNDS

Proprietary preparations employed in foundry practice to stiffen, harden and vent cores; to give body to the sand. Should burn without smoke or smell, should not blow, and should rap out easily. See Oils, Core.

Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
★Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943
Foundry Services Inc, N Y
Stevens, Frederic B, Inc, Detroit, Mich

CREAM NEUTRALIZERS

Agents for neutralizing lactic acid in dairy operations and removing undesirable odors or flavors to finished butter.

Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Western Michigan Chem Co, Muskegon, Mich

CUTTING COMPOUNDS

Paste compounds made with high grade oils, thoroughly saponified so that they mix readily with water and used to insure a perfect and clean thread, smooth surfaces, and to keep tools clean. Used where pastes are more desirable than oils. See also Oils, Cutting.

Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2570
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726

CUTTING COMPOUNDS (cont'd)

Alox Corp, Niagara Falls, N Y
Cooper, D C, Co, Chicago, Ill
Doyle, James W, Corp, Detroit, Mich
Harrison & Co, Inc, Haverhill, Mass
Korns, L R, Co, Chicago, Ill
Phoenix Oil Co, Cleveland, O
Reilly-Whiteman-Walton Co, Conshohocken, Pa
Rodgers, Thos T, Chem Labs, Milwaukee, Wis
Wayne Soap Co, Detroit, Mich
Western States Lacquer Co, Los Angeles, Calif
White & Bagley Co, Worcester, Mass

DAMP-PROOFING BONDS

A high-grade asphalt, coal-tar, pitch, or some form of bitumen in such physical form that it can be brushed on walls before plastering to provide a close bond and to eliminate furring and lathing; also as a foundation coat for sub-structural work under earth filling and as a protection against moisture; as a backing for cut-stone, marble, limestone, or granite. For suppliers see Coatings, Waterproofing; Pitch, Waterproofing; Tar, Damp-Proofing.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Amer Flurexit Co, Cincinnati, O
Berry Asphalt Co, Magnolia, Ark
Sullivan Co, Memphis, Tenn

DECOLORIZERS, GLASS

Chemicals or chemical compounds used in glass batches which tend to counteract the effect of iron or other coloring elements in glass. Purpose is to neutralize any of the impurities in the batch which may give a slight tint to the glass instead of obtaining colorless glass.

Ceramic Color & Chem Mfg Co, New Brighton, Pa

DEFECANTS, SUGAR

Products used in sugar refining to remove impurities.

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

DEFOAMERS, GLUE, etc.

Products which inhibit foaming and bubbling in the manufacture of glue. Many proprietary preparations are general in character and prevent foaming in a wide variety of manufacturing operations, in the making of casein, shellac, paper, coatings, latex finishes, textile finishes, leather finishes, sizes, adhesives, etc., for the purpose of eliminating specks, pinholes, etc.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hercules Powder Co, 978 Market St, Wilmington, Del
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
General Latex & Chem Corp, Cambridge, Mass
Reilly-Whiteman-Walton Co, Conshohocken, Pa
Hewitt, C B, & Bros, Inc, N Y

DEFOAMING AGENTS, TEXTILE

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Antara Prods, Gen! Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700
Colloids Inc, Newark, N J
Hewitt, C B, & Bros, Inc, N Y

DEGREASING COMPOUNDS

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Antara Prods, Gen! Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Cowles Chem Co, 7016 Euclid Av, Cleveland, O — Henderson 1-3400
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Dow Chem Co, Midland, Mich — Midland 500

★See ad in Catalog Section

DEGREASING COMPOUNDS (cont'd)

Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Exton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Chem Co, 1516 Industrial St, Los Angeles, Calif — Trinity 4055
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va — 2-0113
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Wolfen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Circo Prods Co, Cleveland, O
Cooper, D C, Co, Chicago, Ill
Crystal Soap & Chem Co, Inc, Phila, Pa
Dacar Chem Prods Co, Pittsburgh, Pa
Eagle Soap Corp, Huntington, Ind
Enthone, Inc, New Haven, Conn
Fels, Mitchell, Germantown, Pa
George Chem Co, Boston, Mass
Hollingshead, R M, Corp, Camden, N J
Kelite Prods, Inc, Los Angeles, Calif
Magnuson Prods Corp, Bklyn, N Y
Neilson Chem Co, Detroit, Mich
Oakite Prods Inc, N Y
Park Chem Co, Detroit, Mich
Phoenix Oil Prods Corp, Newark, N J
Robins, G S, & Co, St Louis, Mo
Spanier Soap & Chem Co, Santa Monica, Calif
Stull, A J, & Co, Phila, Pa
Udylite Corp, Detroit, Mich

DEGUMMERS (Silk)

Specially formulated compounds used with or without soap to remove natural gum, wax, dirt, and foreign material found in natural silk yarns. See Bail-Off Compounds, Textile; Detergents, Textile

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twineaks 3-4600
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Colloids Inc, Newark, N J
Leatex Chem Co, Phila, Pa

DEHAIRING COMPOUNDS

Preparations used by meat packers for dehairing hogs.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Dow Chem Co, Midland, Mich — Midland 500
Hercules Powder Co, 978 Market St, Wilmington, Del
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twineaks 3-4600
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

DEHYDRATING AGENTS

★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
†Dow Chem Co, Midland, Mich — Midland 500
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O — Adams 5343
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Harrison 7-3541
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Cooper, D C, Co, Chicago, Ill
Hammond, W A, Drierite Co, Xenia, O

DE-ICING FLUID

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
★Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
Dow Chem Co, Midland, Mich — Midland 500
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
★Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
United Distillers of Amer Inc, 350 5 Av, N Y — Lackawanna 4-3570

Thompson Chem Co, Pawtucket, R I

DELUSTRANTS

Products which remove or decrease the "sheen" or metallic luster of rayon so that the goods will have a duller, more silk-like appearance.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Dow Chem Co, Midland, Mich — Midland 500
Hercules Powder Co, 978 Market St, Wilmington, Del
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Bryant Chem Corp, North Quincy, Mass
Colloids Inc, Newark, N J
Edgar Bros Co, Metuchen, N J
Hart Prods Corp, N Y
Leatex Chem Co, Phila, Pa

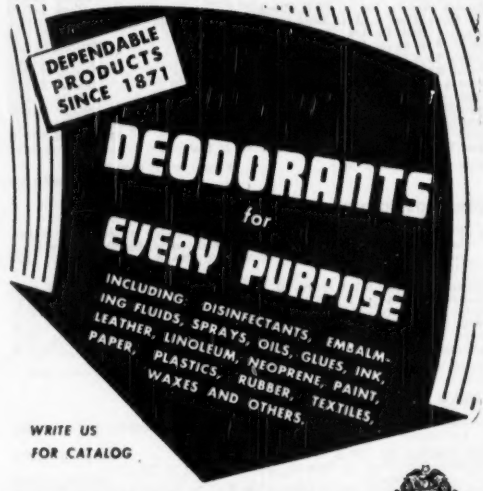
DEMULSIFIERS

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Antara Prods, Gen Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700

Tretolite Co, St Louis, Mo

DEODORANTS

Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110



FRITZSCHE Brothers, Inc.

Est. 1871

PORT AUTHORITY BUILDING, 76 NINTH AVENUE, NEW YORK 11, N.Y.

BRANCH OFFICES and *STOCKS: Atlanta, Ga., Boston, Mass., *Chicago, Ill., Cincinnati, O., Cleveland, O., *Los Angeles, Calif., Philadelphia, Pa., San Francisco, Calif., *St. Louis, Mo., *Toronto, Canada and *Mexico, D. F. FACTORY: Clifton, N. J.

★See ad in Catalog Section



All you need to remember...

NORDA MAKES GOOD SCENTS

If you have a product, or plan a product, let Norda help you make it better. Norda knows what *you* need in Deodorants and Industrial Perfumes . . . for a good many years, has made good scents pay off. Call on us often . . . call on us now . . . write today . . . right away . . . for free samples, new catalogue.

Norda ESSENTIAL OIL AND CHEMICAL COMPANY, INC.
601 West 26th Street, New York 1, N. Y.

CHICAGO LOS ANGELES ST. PAUL MONTREAL
TORONTO HAVANA MEXICO CITY
LONDON PARIS

DEODORANTS, LEATHER

Usually blends of aromatic compounds used chiefly to hide or disguise unpleasant odors of finishing compounds in specialty leather goods, such as wearing apparel accessories: Some types duplicate the distinctive odor of special leathers (as Morocco) in instances where this lends sales appeal.

Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750

DEODORANTS, PAINT

Aromatic chemical compounds that modify or improve the characteristic objectionable odors of solvents and the products of oxidation in drying paint films.

Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Jonet, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750

DEODORANTS, PAPER

Products which supply a pleasant odor to various papers intended for consumer use.

Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750

DEODORANTS, PYROXYLIN

Products employed to disguise the characteristic odor of Celluloid, Pyroxylin and other cellulose consumer products.

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750

DEODORANTS, RUBBER

Aromatic compounds or essential oils or combinations of both generally incorporated during the milling operation, to mask characteristic odor of cured rubber: used chiefly in drug sundries, rain coatings, rubber shoes, and various types of rubber goods used in the home or on the person. Impart a more pleasing odor to finished goods increasing consumer appeal.

Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600

DEODORANTS (cont'd)

Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700

An-Fo Mfg Co, Oakland, Calif
Bestever Prods Co, Chicago, Ill
Bostwick Labs Inc, Bridgeport, Conn
Chem Supply Co, Cleveland, O
Damon Chem Co, Inc, Alliance, O
Eagle Soap Corp, Huntington, Ind
Elkay Prods Co, N Y
Fels, Mitchell, Germantown, Pa
Felton Chem Co, Inc, Bklyn, N Y
Fond Chem Co, Los Angeles, Calif
Hockwald Chem Co, San Fran, Calif
Huggins, James, & Son, Malden, Mass
Kelite Prods, Inc, Los Angeles, Calif
Kemiko Mfg Co, Irvington, N J
Lanair Chem Corp, Chicago, Ill
Oakite Prods Inc, N Y
Ox Color Wks, N Y
Robbins, Geo B, Disinfectant Co, Inc, Cambridge, Mass
White Rose Chem Co, Salem, Ore

DEODORANTS, EMBALMING FLUIDS

Essential oils and special aromatic chemical formulations employed to eliminate by-odors in modern embalming fluids.

Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110

DEODORANTS, GLUE

Preparations used to disguise the characteristic odor of glues.

Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750
Ox Color Wks, N Y

DEODORANTS, INK

Products which neutralize the disagreeable odor of fresh printing ink and instead impart a pleasing smell.

Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750

for quality and advanced service in

deodorants

for all purposes... printing inks, paints, polishes, textiles, plastics, adhesives, natural and synthetic rubber

SINDAR *Corporation*
Industrial Aromatics and Chemicals
330 West 42nd Street, New York 18, N.Y.
Branches: Philadelphia • Boston • Cincinnati • Detroit
Chicago • Seattle • Los Angeles • Montreal • Toronto

★See ad in Catalog Section

DEODORANTS, RUBBER (cont'd)

Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Sindar Corp, 330 W 42 St, N Y	Longacre 4-8750

DEODORANTS, TEXTILE

Aromatic Prods Inc, 15 E 30 St, N Y	Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Sindar Corp, 330 W 42 St, N Y	Longacre 4-8750

Cidex Corp, Jersey City, N J

DRIOCEL A specially selected and activated bauxite, manufactured to low iron and high moisture adsorption specifications in a number of standard meshes.

Applicable to the great majority of gas and liquid hydrocarbon and other chemical drying problems, including air dehumidification. Specific applications include drying of rich and lean natural gases, residue gases, feed stocks to isomerization, synthetic rubber, and alkylation units, liquid propane, butane, ethylene, benzene, toluene, technical and electrical oils, refrigerants, air, etc.

ATTAPULGUS CLAY COMPANY
Sales Agents
210 West Washington Square, Philadelphia 5, Pa.
Cable Address: "ATTACLAYCO"

DESICCANTS

Drying agents used to remove moisture or dehydrate gases, solids, or liquids; utilized in the laboratory for the drying of gases and liquids by direct action (contact) and for the drying of solids (and liquids) by indirect action (through the intermediary of a gas, liquid, or an evacuated space).

DESICCANTS for a wide range of industrial uses

See list of Floridin products in "Company Directory" section

See also Floridin entry under "Adsorbents"

FLORIDIN COMPANY
DEPT. L, 220 LIBERTY ST. WARREN, PA.

Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa	Atlantic 1-4545
Attapulgus Clay Co, 210 W Washington Sq, Phila, Pa	Walnut 2-5720
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Davison Chem Corp, 101 N Charles St, Baltimore, Md	Saratoga 3900

CHEMICALS PER-CHEMICAL GFS PRODUCTS APPARATUS

ANHYDROUS MAGNESIUM & BARIUM PERCHLORATES
The G. Frederick Smith Chemical Company
COLUMBUS, OHIO

VERITAS TAMETSI CAELA CADANT

DESICCANTS (cont'd)

Dow Chem Co, Midland, Mich	Midland 500
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Floridin Co, Warren, Pa	329
Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa	Victor 4-9214
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Smith, G Frederick, Chem Co, 867 McKinley Av, Columbus, O	Adams 5343
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920

Cooper, D C, Co, Chicago, Ill — Hammond, W A, Drierite Co, Xenia, O

DESIZING AGENTS

Sizes of the gelatine, glue, gum, oil, wax, paraffin, or starch variety, must be removed from fabrics before dyeing. Certain of these can be emulsified and removed by washing with a suitable detergent. Starch must be converted into a water-soluble compound and this is done with enzymatic products, which digest the starch, converting it into maltose. Other desizing agents are of the solvent type. See also Enzymatic Preparations.

Aktivin Div, Heyden Chem Corp, 393 7 av, N Y	Pennsylvania 6-9000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Atlantic Chem Co, 2072 Smith St, Centredale, R I	Centredale 0951
Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Sharples Chems Inc, Phila, Pa	Kingsley 5-2802
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Takamine Lab, Inc, 193 Arlington Av, Clifton, N J	Prescott 9-4776
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600

Malt Diastase Co, Bklyn, N Y

DETERGENTS

Fatty Amide Condensates
Alkyl Naphthalene Sulfonates
Modified Alcohol Sulfates
Polyethyleneglycol Esters
Fatty Monoglycerides
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Quaternary Ammonium Compounds
Sequestrenes®
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Manufacturing and Research Chemists
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DETERGENTS

Various materials that aid in removing undesirable substances from the surface to be cleaned.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Alrose Chem Co, 180 Mill St, Cranston, Providence, R I	Williams 1-3000
Amer Agricultural Chem Co, 50 Church St, N Y	Barclay 7-1400
Amer Lecithin Co, Inc, 57-01 32 Av, Woodside, N Y	Astoria 4-4350
Antara Prods, Gen Aniline & Film Corp, 444 Madison Av, N Y	Plaza 9-8540
Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I	Centredale 0951
Atlantic Ref Co, 260 S Broad St, Phila, Pa	Pennypacker 5-2345
Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Bernard Color & Chem Corp, 335 Hudson St, N Y	Watkins 4-5460

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824 Whitney Bldg., New Orleans 12, La.

DETERGENTS (cont'd)

Chlorat Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J	Bergen 4-1300
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
Drew, E F, & Co Inc, 15 E 26 St N Y	Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020

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Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Goris and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hercules Powder Co, 978 Market St, Wilmington, Del	Pennsylvania 6-9000
Heyden Chem Corp, 393 7 Av, N Y	Regent 9-7100
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Digby 4-1500
Industrial Raw Materials Corp, 52 Wall St, N Y	Caledonia 84
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y	Barclay 7-9760
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y	

RENEX® non-ionic detergent

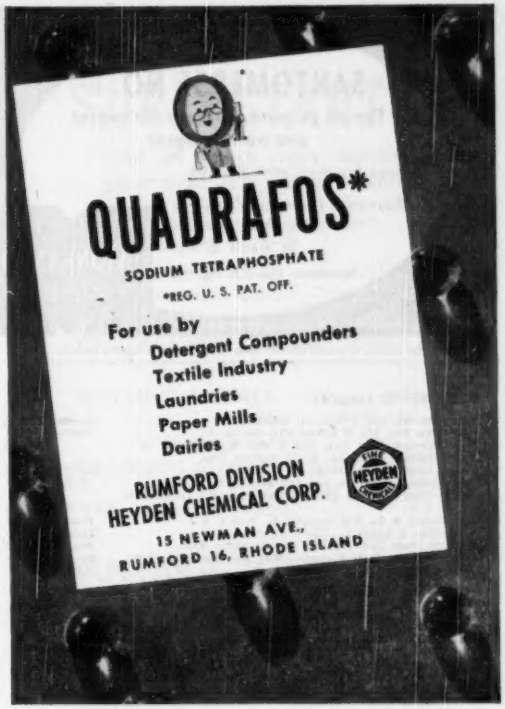
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Atlas Powder Company, Canada, Ltd., Brantford, Canada



DETERGENTS (cont'd)

Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Michel, M, & Co, Inc, 90 Broad St, N Y	Digby 4-3878
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2210
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
N Y Color & Chem Co, 374 Main St, Belleville, N J	Belleville 2-1140
Nimol Labs, 1719 S Clinton St, Chicago, Ill	Chesapeake 3-9625

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Napco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Oronite Chem Co, 38 Sansome St, San Fran, Calif	Exbrook 2-0923
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa	Market 7-7200
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Ross & Rowe, Inc, 50 Bway, N Y	Whitehall 3-7295
Rumford Div, Heyden Chem Corp, Rumford, R I	East Providence 1-2880
Seaboard Industries, 195 Keen St, Paterson, N J	Armory 4-2294
Sharples Chems Inc, Phila, Pa	Kingsley 5-2802
Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2810
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J	Sherwood 2-1726

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Ultra Chem Wks Inc, 2 Wood St, Paterson, N J	Sherwood 2-4910
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill	Harrison 7-3541
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y	Stillwell 4-0500
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich	Wyandotte 1700
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

Adell Chem Co, Holyoke, Mass
An-Fo Mfg Co, Oakland, Calif
Bonewitz Chems Inc, Burlington, Iowa
Breen, Frank J, Chicago, Ill
Commonwealth Color & Chem Co, N Y
Damon Chem Co, Inc, Alliance, O
Diversey Corp, Chicago, Ill
Dubois Co, Cincinnati, O
Fels, Mitchell, Germantown, Pa
Foster Finishing Prods Co, Phila, Pa
George Chem Co, Boston, Mass
Haviland Prods Co, Grand Rapids, Mich
Kelite Prods, Inc, Los Angeles, Calif
Leatex Chem Co, Phila, Pa
Machlett, E, & Son, N Y
Magicleaner Co, Newark, N J
Mertz, L Carlton, Co, Chicago, Ill
Oakite Prods Inc, N Y
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Alrose Chem Co, 180 Mill St, Cranston, Providence, R I	Williams 1-3000
Amer Agricultural Chem Co, 50 Church St, N Y	Barclay 7-1400
Antara Prods, Genl Aniline & Film Corp, 444 Madison Av, N Y	Plaza 9-8540
Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlantic Ref Co, 260 S Broad St, Phila, Pa	Pennypacker 5-2345
Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Bernard Color & Chem Corp, 335 Hudson St, N Y	Watkins 4-5460
Blockson Chem Co, Patterson Rd, Joliet, Ill	Joliet 2-6601
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J	Bergen 4-1300
Cowles Chem Co, 7016 Euclid Av, Cleveland, O	Henderson 1-3400
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Gorin and Co, 8124 S Hoyne Av, Chicago, Ill	Triangle 4-6200
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y	Caledonia 84

DETERGENTS, DISH WASHING (cont'd)

Mahor Color & Chem Co, 355 W Ontario, Chicago, Ill	Superior 7-8432
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
Michel, M, & Co, Inc, 90 Broad St, N Y	Digby 4-3878
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Ninol Labs, 1719 S Clinton St, Chicago, Ill	Chesapeake 3-9625
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa	McKeesport 4-4278
Oronite Chem Co, 38 Sansome St, San Fran, Calif	Exbrook 2-0923
Pacific Coast Borax Co, 51 Madison Av, N Y	Lexington 2-5919
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa	Market 7-7200
Sharples Chems Inc, Phila, Pa	Kingsley 5-2802
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2810
★Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J	Sherwood 2-1726
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J	Sherwood 2-4910
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill	Harrison 7-3541
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich	Wyandotte 1700
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

An-Fo Mfg Co, Oakland, Calif
Barton Chem Co, Chicago, Ill
Besterer Prods Co, Chicago, Ill
Breen, Frank J, Chicago, Ill
Burns, Allen Co, Buffalo, N Y
Cabell Chem Co, Huntington, W Va
Carlton Chem Co, Inc, N Y
Carpenter, W D, Co, Inc, Syracuse, N Y
Crescent Chem Corp, Perth Amboy, N J
Diversey Corp, Chicago, Ill
Dubois Co, Cincinnati, O
Herbert Chem Co, Cincinnati, O
Kearny Mfg Co, Inc, Kearny, N J
Kelite Prods, Inc, Los Angeles, Calif
Kemiko Mfg Co, Irvington, N J
McCann Chem Co, Louisville, Ky
Mertz, L Carlton, Co, Chicago, Ill
Milwaukee Chem Co, Milwaukee, Wis
Moore & Son, Tucson, Ariz
Natl Soap Co, Tacoma, Wash
Peerless Chem Co, Baltimore, Md
Solvit Chem Co, Inc, Madison, Wis
Swift & Co, Chicago, Ill
Warren-Douglas Chem Co, Inc, Omaha, Nebr
Western Soap & Sales Co, Spokane, Wash
Williams Chem Corp, Miami, Fla

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Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Alrose Chem Co, 180 Mill St, Cranston, Providence, R I	Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Antara Prods, Genl Aniline & Film Corp, 444 Madison Av, N Y	Plaza 9-8540
Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I	Centredale 0951
Atlantic Ref Co, 260 S Broad St, Phila, Pa	Pennypacker 5-2345
Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Bernard Color & Chem Corp, 335 Hudson St, N Y	Watkins 4-5460

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DETERGENTS, SYNTHETIC (cont'd)

Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 3-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J	Bergen 4-1300
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800

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Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-2220
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Hercules Powder Co, 978 Market St, Wilmington, Del	
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y	Barclay 7-9760
L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill	Torrence 2-6962
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Michel, M, & Co, Inc, 90 Broad St, N Y	Digby 4-3878
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000

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DISPERSANTS LIQUID, NON-IONIC . . . NON-IONIC, PASTE

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KREELON 4G . . . *40% synthetic detergent powder*

KREELON 7D . . . *70% synthetic detergent flake*

Kreelon* is an efficient synthetic detergent and wetting agent. It *penetrates, spreads, emulsifies, disperses and cleans as it wets.* Its great value lies in its ability to function well in acid, alkaline or neutral solutions, and in hard or soft waters—either alone or in solutions and dry mixes with a great number of other chemicals.

*Reg. U. S. Pat. Off.

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Detergents • Glycols • Carbose (Sodium CMC) • Ethylene Dichloride • Propylene Dichloride • Aromatic Sulfonic Acid Derivatives
Other Organic and Inorganic Chemicals

DETERGENTS, SYNTHETIC (cont'd)

National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
N Y Color & Chem Co, 374 Main St, Belleville, N J	Belleville 2-1140
Ninol Labs, 1719 S Clinton St, Chicago, Ill	Chesapeake 3-9625
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa	McKeesport 4-4278
Oronite Chem Co, 38 Sansome St, San Fran, Calif	Exbrook 2-0923
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
Prior Chem Corp, 420 Lexington Av, N Y	Lexington 2-9811
Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Sharples Chems Inc, Phila, Pa	Kingsley 5-2802
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2810
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J	Sherwood 2-1726
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J	Sherwood 2-4910
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill	Harrison 7-3541
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va	2-0113
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y	Stillwell 4-0500
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700

Adell Chem Co, Holyoke, Mass
Besterer Prods Co, Chicago, Ill
Bonewitz Chems Inc, Burlington, Iowa
Breen, Frank J, Chicago, Ill
Colloids Inc, Newark, N J
Continental Chem Co, Passaic, N J
Eastern Color & Chem Co, Providence, R I
Fels, Mitchell, Germantown, Pa
Hart Prods Corp, N Y
Hukill Chem Corp, Cleveland, O
Kearny Mfg Co, Inc, Kearny, N J
Peerless Chem Co, Baltimore, Md
Penetone Co, Tenafly, N J
U S Sanitary Specialties Corp, Chicago, Ill
Universal Chem Co, Boston, Mass
Warwick Chem Co, Long Is City, N Y
Watson-Park Co, Boston, Mass

DETERGENTS, TEXTILE

Specially formulated compounds prepared for cleansing textiles. Each type of textile fibre presents its own special problem. Textiles are washed at various stage of manufacture. In recent years advances have been made in studying the peculiar requirements at each stage and in the accurate control of pH values, etc. Scientifically prepared products help to preserve tensile strength, provide better resistance to abrasive action, give whiter colors, assist in penetration of dyes, more level shades, etc.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Alrose Chem Co, 180 Mill St, Cranston, Providence, R I	Williams 1-3000
Amer Agricultural Chem Co, 50 Church St, N Y	Barclay 7-1400
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Antara Prods, Genl Aniline & Film Corp, 444 Madison Av, N Y	Plaza 9-8540
Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000

DETERGENTS, TEXTILE (cont'd)

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I	Centredale 0951
Atlantic Ref Co, 260 S Broad St, Phila, Pa	Pennypacker 5-2345
Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
Bergstrom Trading Co Inc, 233 Bway, N Y	Worth 2-5170
Bernard Color & Chem Corp, 335 Hudson St, N Y	Watkins 4-5460
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J	Bergen 4-1300

TEXTILE DETERGENTS

DETERSOLS
(Synthetic Detergents) for boil-off and scouring of all textile goods.

PYROTEX
for wool and worsted scouring; for boil-off of acetates and rayon and acetate mixtures.

STANDARD CHEMICAL PRODUCTS, Inc.
13th and JEFFERSON STREETS, HOBOKEN, NEW JERSEY

Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill	Superior 7-8432
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill	Torrence 2-6962
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712

SYNTHETIC CHEMICALS, INC.

Manufacturers of
Surface Tension Chemicals, Processing Specialties for Textiles and Plastics Products for Textiles

Penetrating Agents
Tensols & Intramines

Dispersing Agents
Intrals, 224-229-384
Tensols, Janusol
Azocel B

Softeners
Intracol, Softener FG
Negamine 142A

Carbonizing
Tensols

Scouring Agents
Intramines

Leveling Agents
Tensols, Intramines, Intracols, Intrals
Azocel B

Lubricating
Intracol
Negamine 142A

Emulsifying
Intracols, Mulsors

PRODUCTS FOR SYNTHETIC FINISHES

SOTEX N—for water dispersible pigment paste
SOTEX NC—for lacquers and coating materials
SOTEX 3CW—for dispersion organic and inorganic pigments
SOTEX C—for soft textured pigments
SOTEX C, SOTEX NC, SOTEX 3CW—for alkyds modified phenolics and melamines
SOTEX 3CW, SOTEX CW—for vapo set vehicles or glycol resins
SOTEX CW, SOTEX WO—for vinyl vehicles

Samples and Technical data upon request

SYNTHETIC CHEMICALS, INC.
MANUFACTURING CHEMISTS
335 McLEAN BLVD., PATERSON 4, N. J.
Phone SHerwood 2-1726

*See ad in Catalog Section

DETERGENTS, TEXTILE (cont'd)

Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Nimol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co 190 Warren St, Jersey City, N J — Bergen 4-1700
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Stahl Finish Co, 23 Calier St, Peabody, Mass — Peabody 371
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Harrison 7-3541
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Adell Chem Co, Holyoke, Mass
Amalgamated Chem Corp, Phila, Pa
Bryant Chem Corp, North Quincy, Mass
Carlton Chem Co, Inc, N Y
Colloids Inc, Newark, N J
Foster Finishing Prods Co, Phila, Pa
George Chem Co, Boston, Mass
Joy Chem Co, Pawtucket, R I
Kearny Mfg Co, Inc, Kearny, N J
Lanatex Chem Co, Providence, R I
Leatex Chem Co, Phila, Pa
Magicleaner Co, Newark, N J
Nor-Ed Chem Co, Yorkshire, N Y
Perkins Soap Co, Springfield, Mass
Seydel-Woolley & Co, Atlanta, Ga
Sun Chem Corp, Long Is City, N Y
Titan Chem Prods Inc, Jersey City, N J
Watson-Park Co, Boston, Mass

DETONATORS

Amer Cyanamid Co, Explosives Dept, 30 Rockefeller Plaza, N Y — Circle 7-0100
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
Hercules Powder Co, 978 Market St, Wilmington, Del
Apache Powder Co, Benson, Ariz
Natl Powder Co, Eldred, Pa

DEVELOPERS, DYEING

Products employed with certain types of dyes to bring out the color, assist in fixing the color in the cloth, etc, and to improve the fastness.

NAPHTHOLS and BETA OXY NAPHTHOIC ACID

Pfister Chemical Works INC.

RIDGEFIELD, NEW JERSEY

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Chem Co, 1516 Industrial St, Los Angeles, Calif — Trinity 4055
Pfister Chem Wks, Linden Av, Ridgefield, N J — Pennsylvania 6-4891
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

DEVELOPERS, PHOTOGRAPHIC

Reducing agents used to make the image visible on the plate, film or paper, usually by the formation of black metallic silver.

DEVELOPERS, PHOTOGRAPHIC (cont'd)

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Du Pont de Nemours, E I, & Co (Inc), (Photo Prods Dept), Wilmington, Del — Wilmington 4-5121
Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000
Blum, Paul, Co, Buffalo, N Y
Food Chem Co, Los Angeles, Calif

DIELECTRIC FLUIDS

Preparations used as insulating, cooling, and impregnating mediums in electrical equipment. Mineral oil is widely used and comparatively new are the chlorinated derivatives of the aromatic hydrocarbons. See also Diphenyl.

Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Dow Chem Co, Midland, Mich — Midland 500
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500

DIPS, ANIMAL

Preparations variously formulated of arsenical insecticides, sulfur, nicotine, derris, pyrethrum, spirits of tar, phenol, and other compounds, used primarily for the control of scab, mites, ticks, etc.

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Chipman Chem Co, Inc, Bound Brook, N J
McLaughlin Gormley King Co, Minneapolis, Minn
Huggins, James, & Son, Malden, Mass
Whitmoyer Labs, Inc, Myerstown, Pa

DISCHARGE AGENTS, TEXTILE

Usually a reducing agent most common of which is sodium hydrosulfite. Used to reduce the ground color in discharge printing on silk, cotton or rayon fabrics, as an ingredient in vat dyeing and as a stripper to remove dyestuffs from fabrics for redyeing. There are several proprietary products for special stripping purposes where hydrosulfite is ineffectual or unsuitable.

Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
★Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

DISINFECTANT BASES

Coal-tar acids, coal-tar chemicals used as the base in the manufacture of coal-tar disinfectants. Pine oil used as the base for the production of pine-oil disinfectants.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Hercules Powder Co, 978 Market St, Wilmington, Del
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Huggins, James, & Son, Malden, Mass
Universal Chem Co, Boston, Mass

DISINFECTANTS, COAL TAR

Coal tar disinfectants owe their potency largely to the phenolic compounds they contain and are made in emulsion and soluble types. The emulsion type is made from tar acid oils, soaps (frequently rosin soap) and water, and when diluted for use in water form whitish emulsions. They are manufactured with phenol coefficients ranging from 2 to 20. The soluble type is made from tar acids, usually cresols and xylenols, soap, alkali and water and form clear or slightly opalescent solutions when diluted with water for use. Liquor cresolis compositus U.S.P. XI is a soluble type disinfectant made according to the specifications of the U. S. Pharmacopoeia. The Bureau of Animal Industry (B.A.I.) type is another example of the soluble type coal tar disinfectant.

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Cabell Chem Co, Huntington, W Va
Chem Supply Co, Cleveland, O
Cooper's Creek Chem Corp, W Conshohocken, Pa
Crystal Soap & Chem Co, Inc, Phila, Pa
Eagle Soap Corp, Huntington, Ind
Gerson Stewart Corp, Cleveland, O
Hockwald Chem Co, San Fran, Calif
Hollingshead, R M, Corp, Camden, N J
Huggins, James, & Son, Malden, Mass

★See ad in Catalog Section

DISINFECTANTS, COAL TAR (cont'd)

Huntington Labs, Huntington, Ind
McCann Chem Co, Louisville, Ky
McLaughlin Gormley King Co, Minneapolis, Minn
Miller Chem Co, Omaha, Nebr
Monarch Chem Wks, Inc, Omaha, Nebr
Sachs Mfg Co, Pittsburgh, Pa
Standard Chem Co, Phila, Pa
Whitmoyer Labs, Inc, Myerstown, Pa

DISINFECTANTS, DAIRY

Aktivin Div, Heyden Chem Corp, 393 7 av, N Y — Pennsylvania 6-9000
Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Biockson Chem Co, Patterson Rd, Joliet, Ill — Joliet 2-6601
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Cowles Chem Co, 7016 Euclid Av, Cleveland, O — Henderson 1-3400
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

An-Fo Mfg Co, Oakland, Calif
Burns, Allen Co, Buffalo, N Y
Cabell Chem Co, Huntington, W Va
Diversey Corp, Chicago, Ill
Hockwald Chem Co, San Fran, Calif
Kemiko Mfg Co, Irvington, N J
Robbins, Geo B, Disinfectant Co, Inc, Cambridge, Mass
Solvit Chem Co, Inc, Madison, Wis

DISINFECTANTS, FRAGRANTS

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750

DISINFECTANTS, HOUSEHOLD

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Bestever Prods Co, Chicago, Ill
Cloroben Corp, Jersey City, N J
Huggins, James, & Son, Malden, Mass
Zellers Labs, Reading, Pa

DISINFECTANTS, HYPOCHLORITE

Products which liberate free (nascent) chlorine to sterilize and disinfect; sold on the basis of available chlorine content. See Commercial Standard CS68-38, Nat. Bureau of Standards, U. S. Dept. of Commerce.

Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Barton Chem Co, Chicago, Ill
Cabell Chem Co, Huntington, W Va
Dehls & Stein, Inc, Newark, N J
Diversey Corp, Chicago, Ill
Hachik Bleach Co, Phila, Pa
Monarch Chem Wks, Inc, Omaha, Nebr

DISINFECTANTS, INDUSTRIAL

Products, usually of the coal-tar, pine-oil or hypochlorite type, used in industrial establishments, packing house, railroads, etc., for sterilising, disinfecting and the general maintenance of sanitary conditions.

Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Bork, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Fine Organics, Inc, 211 E 19 St, N Y — Gramercy 5-1030
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Cabell Chem Co, Huntington, W Va
Huggins, James, & Son, Malden, Mass
Lanair Chem Corp, Chicago, Ill
Robbins, Geo B, Disinfectant Co, Inc, Cambridge, Mass
Safran Chem & Supply Co, Lynn, Mass

DISINFECTANTS, PINE OIL

Products formulated with pine oil or pine oil derivatives and used for sterilising and disinfecting. See Commercial Standard CS69-38, Nat. Bureau of Standards, U. S. Dept. of Commerce.

Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

DISINFECTANTS
QUATERNARY AMMONIUM
and
PINE OIL DISINFECTANTS
ALEX C. FERGUSSON CO.
46 E. Oregon Avenue Philadelphia 48, Pa.
Phone Howard 5-5020
Branch Warehouse, Allentown, Pa.
Phone Allentown 7780

DISINFECTANTS, PINE OIL (cont'd)

Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Buckingham Wax Co, Long Is City, N Y
Burns, Allen Co, Buffalo, N Y
Cabell Chem Co, Huntington, W Va
Carpenter, W D, Co, Inc, Syracuse, N Y
Chem Labs, Houston, Texas
Chem Supply Co, Cleveland, O
Fels, Mitchell, Germantown, Pa
Foster Finishing Prods Co, Phila, Pa
Gerson Stewart Corp, Cleveland, O
Haviland Prods Co, Grand Rapids, Mich
Hockwald Chem Co, San Fran, Calif
Huggins, James, & Son, Malden, Mass
McCann Chem Co, Louisville, Ky
Oil-Kraft Inc, Cincinnati, O
Robbins, Geo B, Disinfectant Co, Inc, Cambridge, Mass
Schmidt Soap Prods Inc, Chicago, Ill
Solshine Mfg Co, Fall River, Mass
Standard Chem Co, Phila, Pa
Uncle Sam Chem Co, Inc, N Y
U S Sanitary Specialties Corp, Chicago, Ill
Whitmoyer Labs, Inc, Myerstown, Pa
Williams Chem Corp, Miami, Fla

DISINFECTANTS, POULTRY

Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700

Whitmoyer Labs, Inc, Myerstown, Pa
Zellers Labs, Reading, Pa

DISINFECTANTS, SEED

Preparations for treating seeds to prevent fungus and other growths and to check "damping-off" of seedlings; are usually complex compounds of mercury, arsenic, and copper; also hydrogen peroxide.

Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

DISPERSING AGENTS, CEMENTS

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-3637
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Marathon Corp, Chem Div, Rothschild, Wis
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Dewey & Almy Chem Co, Cambridge, Mass
Master Builders Co, Cleveland, O

DISPERSING AGENTS, LEATHER

Products which assist in obtaining a maximum degree of particle comminution, prevent the particles from reaggregating, forcing and keeping them apart.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-3637
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Antara Prods, Geni Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2255
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Marathon Corp, Chem Div, Rothschild, Wis
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nimi Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

DISPERSING AGENTS, PAPER

Substances added to the pulp in the beater to keep foreign particles such as resins in fine suspension, or to paper coating mixtures for the suspension of clay fillers, color pigments, etc., before and during application. Sulfonated oils are commonly used for this purpose.

Abrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Antara Prods, Genl Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hercules Powder Co, 978 Market St, Wilmington, Del — Lexington 2-7600
Johns-Manville, 22 E 40 St, N Y — Devonshire 8-0500
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Belleville 2-1140
Marathon Corp, Chem Div, Rothschild, Wis — Harrison 6-6200
N Y Color & Chem Co, 374 Main St, Belleville, N J — Bergen 4-1700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Lombard 3-9860
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Whitehall 3-7295
Rohm & Haas Co, Washington Sq, Phila, Pa — East Providence 1-2880
Ross & Rowe, Inc, 50 Bway, N Y — Sherwood 2-1726
Rumford Div, Heyden Chem Corp, Rumford, R I — Murray Hill 6-6864
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Prescott 7-5000
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J

Adell Chem Co, Holyoke, Mass — Natl Aluminate Corp, Chicago, Ill

DISPERSING AGENTS, PIGMENT

Substances used for dispersing insoluble pigments in inks, paints, dye baths, coating mixtures, etc.

Abrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Antara Prods, Genl Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Marathon Corp, Chem Div, Rothschild, Wis
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Nimol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Nuodex Prods Co Inc, 850 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345

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DISPERSANTS LIQUID, NON-IONIC . . . NON-IONIC, PASTE

WETTING AGENTS LIQUID, NON-IONIC . . . LIQUID, ANIONIC . . . POWDERED, ANIONIC

FOAMING AGENTS LIQUID, NON-IONIC . . . LIQUID, ANIONIC . . . POWDERED, ANIONIC

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444 MADISON AVENUE, NEW YORK 22, N. Y.

DISPERSING AGENTS, PIGMENT (cont'd)

Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Dewey & Almy Chem Co, Cambridge, Mass — Ferro Chem Corp, Bedford, O

MARASPERSE DISPERSANTS

Wide application in diversified fields

DYESTUFFS • INSECTICIDES • EMULSIONS
RUBBER • INDUSTRIAL CLEANERS • PIGMENTS

Consult us for better lower-cost dispersions

MARATHON CORPORATION
CHEMICAL DIVISION
ROTHSCHILD, WISCONSIN

DISPERSING AGENTS, RUBBER

Preparations employed to assist dispersing rubber compounding materials properly in water or other mixing medium. Should be neutral in action, non-toxic, have no discoloring effect on the finished article, nor any effect on the rate of cure or ageing of the rubber compounds.

Abrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Antara Prods, Genl Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Hercules Powder Co, 978 Market St, Wilmington, Del
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Marathon Corp, Chem Div, Rothschild, Wis
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Dewey & Almy Chem Co, Cambridge, Mass

DISPERSING AGENTS, TEXTILE

Preparations used in any of the various textile processes to keep dyestuffs, pigments, oils, waxes, foreign particles such as dirt, grease, calcium or magnesium compounds in suspension.

Abrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Antara Prods, Genl Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5173
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Marathon Corp, Chem Div, Rothschild, Wis
Martyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Nimol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295

★See ad in Catalog Section

QUADRAFOS*
SODIUM TETRAPHOSPHATE
*REG. U. S. PAT. OFF.
For
Water Softening • Detergency
Deflocculation • Emulsification
Dispersion • Dye and Bleach
Assistant
FINE HEYDEN CHEMICALS
RUMFORD DIVISION
HEYDEN CHEMICAL CORPORATION
15 Nowman Ave., Rumford 16, R.I.

DISPERSING AGENTS, TEXTILE (cont'd)

Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Adell Chem Co, Holyoke, Mass
Amalgamated Chem Corp, Phila, Pa
Colloids Inc, Newark, N J
Continental Chem Co, Passaic, N J
Foster Finishing Prods Co, Phila, Pa
Laurel Soap Mfg Co, Phila, Pa

DISPERSIONS, NATURAL RESINS AND GUMS

Dispersions of natural resins and gums in various viscosities for adhesives, coatings, saturations and dipping.

Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y — Hanover 2-3750
National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

Bafran Chem & Supply Co, Lynn, Mass

DISPERSIONS, PIGMENTS

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Lecithin Co Inc, 57-01 32 Av, Woodside, N Y — Astoria 4-4350
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
RBH Dispersions, Div of Interchem Corp, 1-5 Factory Lane, Bound Brook, N J — Bound Brook 9-0700
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Vanderbilt, R T, Co, Inc, 250 Park Av, N Y — Murray Hill 6-6864
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Acheson Colloids Corp, Port Huron, Mich
Argus Chem Lab Inc, Bklyn, N Y
Claremont Pigment Dispersion Corp, Bklyn, N Y
Osborn, C J, Co, N Y
Sun Chem Corp, Long Is City, N Y

PIGMENT DISPERSIONS
In Nitrocellulose, Synthetic Resins and other binders*
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DISPERSIONS
DIVISION OF INTERCHEMICAL CORPORATION
BOUND BROOK, NEW JERSEY

DISPERSIONS, RECLAIMED RUBBER

Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

DISPERSIONS, SYNTHETIC RESINS

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243

DISPERSIONS, SYNTHETIC RESINS (cont'd)

Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726

Goodrich, B F, Chem Co, Cleveland, O
Hukill Chem Corp, Cleveland, O
Osborn, C J, Co, N Y

DOPES, AIRPLANE

Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Avondale Co, Northfield, Ill
Hughes Glue Co, Detroit, Mich
Pyroxylin Prods, Inc, Chicago, Ill
Raffi & Swanson, Inc, Chelsea, Mass
Western States Lacquer Co, Los Angeles, Calif

DOPES, LACQUER

Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060

Avondale Co, Northfield, Ill
Dolan, V J, & Co, Inc, Chicago, Ill
Keiner Co, Newark, N J
Midland Industrial Finishes Co, Waukegan, Ill
Western States Lacquer Co, Los Angeles, Calif

DOPES, LEATHER (Artificial)

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060

Avondale Co, Northfield, Ill
Dolan, V J, & Co, Inc, Chicago, Ill
Keiner Co, Newark, N J

DRAWING COMPOUNDS, WIRE

Lubricating agents that increase smoothness and brightness of high carbon steel wires, and prolong life of the dies.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Mathe Chem Co, 169 Millbank St, Ladi, N J — Prescott 9-4981
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 39 Beekman St, N Y — Beekman 3-3162
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Amer Chem Paint Co, Ambler, Pa
Amer Lanoline Corp, Lawrence, Mass
Breen, Frank J, Chicago, Ill
Doyle, James W, Corp, Detroit, Mich
Ironsides Co, Columbus, O
Magnuson Prods Corp, Bklyn, N Y
Phoenix Oil Co, Cleveland, O
Reilly-Whiteman-Walton Co, Conshohocken, Pa

DRESSINGS, BELT

Preparations, usually in liquid or stick form, to prevent "slipping," to increase and preserve the life of belts, to make them soft and pliable, prevent stretching and in the case of rubber belts from peeling off. Special dressings are made for leather, cotton, and rubber belts.

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100

Amer Lanoline Corp, Lawrence, Mass
Whitmoyer Labs, Inc, Myerstown, Pa

DRESSINGS, LEATHER

Preparations used to revive color, restore softness and pliability, and to prevent cracking; used on both new and old leather.

Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100

Keiner Co, Newark, N J
Kepec Chem Corp, Milwaukee, Wis

DRIERS, COBALT

Preparations of various cobalt oxides added to paint mixtures to accelerate drying of the film, or added during the process of boiling linseed or other paint oils, to increase their drying properties.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
Neuberg, Wm D, Co, Inc, 420 Lexington Av, N Y — Oregon 9-2550
Nuodex Prods Co Inc, 850 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Stresen-Reuter, Fred'k A, Inc, 2115 Medill Av, Chicago, Ill — Humboldt 1582
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Amer Lithographic Varnish Co, Kearny, N J
Ceramic Color & Chem Mfg Co, New Brighton, Pa
Ferro Chem Corp, Bedford, O
Stille-Young Corp, Chicago, Ill

★See ad in Catalog Section

DRIERS for the Protective Coating Industry

Pioneer producers of naphthenate driers

SOLIGEN DRIERS
Lead • Zinc
Iron • Cobalt
Calcium • Aluminum
Manganese

HEXOGEN DRIERS
Lead • Zinc
Cobalt
Calcium
Manganese

ADVANCE SOLVENTS & CHEMICAL CORP.
245 FIFTH AVENUE • NEW YORK 16, N. Y.

DRIERS, NAPHTHENATE

Metal salts generally of lead, cobalt, manganese and zinc of cyclo pentyl carboxylic acids. They are used to hasten the drying of paints, printing inks and linoleums and are characterised by extreme compatibility and solubility with the various oils and resins used in those products.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Huber, R D, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
Nuodex Prods Co Inc, 850 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Ferro Chem Corp, Bedford, O
Gilbreath Chem Co, San Fran, Calif

Witco DRIERS
Witco NAPHTHENATE DRIERS
Witco OCTOIC DRIERS
Lead · Cobalt · Manganese · Calcium · Zinc

Witco Driers are manufactured in our new, modern plant in Chicago, assuring highest quality and prompt deliveries.

WITCO CHEMICAL COMPANY
295 MADISON AVENUE · NEW YORK 17, NEW YORK

BOSTON • CHICAGO • HOUSTON • CLEVELAND
AKRON • LOS ANGELES • SAN FRANCISCO
LONDON AND MANCHESTER, ENGLAND

DRIERS, PAINT AND VARNISH

Materials which hasten the drying period in painting, varnishing, enameling and lacquering operations and usually compounded from resinates of manganese, cobalt, lead and zinc; also borates, oxides, chloride, sulfate and hydrate of manganese; also linoleates and cobalt acetate, and special chemical combinations of lead, cobalt, manganese, and zinc salts with naphthenic acids.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803

HARSHAW
THE HARSHAW CHEMICAL CO.
Cleveland 6, Ohio
AND PRINCIPAL CITIES

DRIERS

A complete line of driers and metallic soaps for the paint, varnish, printing ink, floor covering, and allied industries.

DRIERS, PAINT AND VARNISH (cont'd)

Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
Nuodex Prods Co Inc, 850 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Ferro Chem Corp, Bedford, O
Shepherd Chem Co, Cincinnati, O
Stille-Young Corp, Chicago, Ill

DRIERS, PRINTING INK

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
Nuodex Prods Co Inc, 850 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Amer Lithographic Varnish Co, Kearny, N J
Braden Sutphin Ink Co, Cleveland, O
Benefelder Co, Inc, N Y
Shepherd Chem Co, Cincinnati, O
Ferro Chem Corp, Bedford, O

DRILLING COMPOUNDS (Metals)

Lubricants employed in machining operations of various kinds.

Antara Prods, Gen Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8340
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100

Wayne Soap Co, Detroit, Mich

DRILLING MUDS, OIL-WELL

Preparations pumped under pressure during rotary drilling to lubricate the drilling and carry back to the surface the earth and rock from the drill.

Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Attapulgus Clay Co, 210 W Washington Sq, Phila, Pa — Walnut 2-5720
Blockson Chem Co, Patterson Rd, Joliet, Ill — Joliet 2-6601
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Baroid Sales Div, Los Angeles, Calif
Sullivan Co, Memphis, Tenn

DRY-CLEANING COMPOUNDS

Wide variety of preparations used by the dry-cleaner to remove stains, clean, and otherwise renovate garments, etc. See also Cleaners, Rug; Cleaning Fluids; Pre-Spotters (Dry-Cleaning); Soaps, Dry-Cleaning; Soaps, Rug-Cleaning; Sodas, Modified; Sodas, Textile; Sponging Compounds, Textile; Solvents, Dry-Cleaning; Stiffeners, Textile; Strippers, Dry-Cleaning; Wetting Agents; Carbon, Solvent Recovery, etc.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Mineral Spirits Co, 153 E 44 St, N Y — Murray Hill 2-6490
Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0995
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Dow Chem Co, Midland, Mich — Midland 500
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Kohnstamm, H & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Chem Specialties Co, Los Angeles, Calif
Georgia Chem Co, Boston, Mass
Huntington Labs, Huntington, Ind
Leich, Charles, & Co, Evansville, Ind
Patek & Co, San Fran, Calif
Synthron Inc, Ashton, R I

DUST LAYERS

Chemicals or compounds which exhibit a binding effect or possess sufficient deliquescent powers to absorb moisture from the air, and used on roads, tennis courts, play-grounds, etc. See also Oils, Road; see also Calcium Chloride.

★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Dow Chem Co, Midland, Mich — Midland 500
Opnice Lab, 20 E Pittsburgh Blvd, McKeesport, Pa — McKeesport 4-4278
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Richer-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Huntington Labs, Huntington, Ind

★See ad in Catalog Section

DUSTING POWDERS, AGRICULTURAL

Various products blown on plants, flowers, vegetables, trees, etc., to kill or control injurious insects and fungi: more commonly employed are dusting sulfurs, arsenicals, pyrethrum and pulverized tobacco. A large number of specially compounded formulas are available for applications to meet specific infestations on particular plants.

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Agkem Inc, Quincy, Ill
Western Michigan Chem Co, Muskegon, Mich
World Spray Co, Inc, Los Angeles, Calif

DUSTING POWDERS, POULTRY

Preparations dusted on poultry to kill and control lice and other vermin.

Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700

Whitmoyer Labs, Inc, Myerstown, Pa

DYES, ACETATE

Coal tar dyes especially developed for dyeing acetate silk, which, because it is a cellulose ester, is not dyed by the dyestuffs ordinarily used for cotton or the regenerated types of rayon.

DYESTUFFS

CIBA

Coprantine Colors
Chlorantine Fast Colors
Ciba and Cibanone Vat Dyes, Neolan Colors
Pyrogene C. F. Colors
Soluble Colors for Nitrocellulose or Acetylcellulose Lacquers and Plastics.
Complete Lines of Acid, Direct, Basic, Developing, Chrome, Sulphur, Vat or Naphthol for Dyeing, Printing or Staining.
We have sample cards or circulars for every possible use of dyestuffs.
Efficient Technical Service at your disposal.

Submit your coloring problems to us.

Address All Inquiries to

CIBA CO., INC. NEW YORK

GREENWICH AND MORTON STREETS

Branches: Boston, Providence, Philadelphia, Charlotte, Chicago, San Francisco

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432

DYESTUFFS INTERMEDIATES

BERNARD COLOR & CHEMICAL CORPORATION

"BERNCOLORS"

Bernard Color & Chemical Corporation

MAIN OFFICES AND LABORATORIES
333 Hudson Street
NEW YORK 13, N. Y.
Cable: "Berncolors" WAtkins 4-5460

DYES, ACETATE (cont'd)

National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Schw Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
★Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

Bachmeier & Co Inc, N Y
Foster-Heaten Co, Paterson, N J
Nova Chem Corp, N Y
Sandos Chem Wks, Inc, N Y

DYES, COTTON

Dyes for cotton include the direct or substantive dyes which are water soluble products that dye cotton directly without the use of a mordant; the basic dyes which are water soluble dyes but which require that the cotton be first mordanted, usually with tannic acid and antimony salts; the sulfur dyes, insoluble in water but soluble in sodium sulfide, from which solution they dye cotton directly; the vat dyes, insoluble in water but soluble in caustic soda and sodium hydrosulfite. The vat dye solution possesses a direct affinity for the cotton and, by subsequent oxidation, reproduces the original insoluble form of the dyestuff. In general the vat dyes possess the best fastness to washing and light; the direct dyes in general are of moderate to fair fastness to washing and from moderate to very good fastness to light; the basic dyes are poor in light fastness but are extremely bright; more so than any other class of cotton dyes; the sulfur dyes may be considered as being faster than the direct dyes but not as fast as the vats. Many of the direct dyes can be after-treated with metallic salts or with formaldehyde with a consequent increase in fastness either to light or to washing. Another group of direct dyes, commonly called development dyes, are applied in a similar manner to the usual direct dyes but, by subsequent diazotization and development, yield shades rather faster to washing. Another group of dyes for cotton is the Naphthol dyes, generally of good fastness to light and washing. These dyes are formed directly on the fibre itself.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
L & R Organic Preds Co, Inc, 50 White St, N Y — Canal 6-0606
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Pfister Chem Wks, Linden Av, Ridgefield, N J — Pennsylvania 6-4891
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Lever, C, Co, Inc, Phila, Pa
Nelson Chems Corp, Detroit, Mich
Nova Chem Corp, N Y
Sandos Chem Wks, Inc, N Y

NAPHTHOLS and BETA OXY NAPHTHOIC ACID

Pfister Chemical Works Inc.

RIDGEFIELD, NEW JERSEY

★See ad in Catalog Section

DYES, FUR

Fur dyes, strictly speaking, are not dyes but intermediates, which are applied to the fur and subsequently treated with oxidising agents and mordants whereby the color is developed.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Verona Chem Co, 26 Verona Av, Newark, N J — Humboldt 3-3200

Nova Chem Corp, N Y

DYES, GASOLINE

Special dyes for use in gasoline to indicate presence of a toxic substance, for example, tetraethyl lead or to distinguish a certain brand.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Patent Chems, Inc, 333 McLean Blvd, Paterson, N J — Sherwood 2-1726
Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

Bachmeier & Co Inc, N Y — Ox Color Wks, N Y
Foster-Heaten Co, Paterson, N J

DYES, HAT

Hats are dyed with wool dyes. For solid shades the hat bodies are dyed with acid dyes especially selected for their ability to penetrate the dense body of the hat and to dye extremely level. It is also essential that the dyes possess marked fastness to light. For mottled shades the material is dyed before the body is formed, in which case chrome dyes are used.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

Bachmeier & Co Inc, N Y

Geigy

Dyestuff Makers Since 1859

GEIGY COMPANY, INC.

Branches
In all leading dyestuff consuming centers.

Main Office
89-91 Barclay St., New York 8, N. Y.

DYES, HOSIERY

Dyes for hosiery are selected according to the nature of the material being dyed. Pure silk hose requires acid dyes of good washing fastness, and are supplemened by substantive cotton dyes when the fabric contains cotton toe and heel re-inforcements. Direct dyes are used for cotton and rayon hose: sulfur dyes for all cotton hose, particularly black: acid and chrome dyes for wool.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2955
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

DYES, LACQUER

Dyes soluble in lacquers. By incorporating them, various colored but transparent lacquers are produced. Their use over metal, paper, etc., gives pleasing effects as the transparent lacquer allows the finish of the base material to show through. For Suppliers see Dyes, Resin.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000

CALCO

meets all your dyeing and printing needs

Calco offers the textile dyer and printer a *complete* line of the highest quality dyes developed to give the maximum efficiency and economy in dye applications. Whatever your dyeing needs, Calco can supply them.

NOMENCLATURE	DYE CLASSIFICATION	USE ON FIBRES LISTED
CALCO® ACETATE	Direct on Acetate	Cellulose acetate and nylon
CALCOCHROME*	Mordant Acid (Chrome)	Leather and wool
CALCOCID*	Acid	Lakes, leather, nylon, silk and wool
CALCODUR*	Direct (Of Superior light fastness)	Cotton, linen, paper and viscose
CALCOFAST* WOOL	Acid (Metallized)	Nylon and wool
CALCOFLOUR WHITE	Direct (Fluorescent white)	Cotton, linen, viscose and wool
CALCOFORM®	Direct Formaldehyde	Cotton, linen and viscose
CALCOGENE*	Sulfur	Cotton, linen and viscose
CALCOLOID*	Vat (Highly dispersed)	Cotton, linen, silk, wool and viscose
CALCOMINE*	Direct	Cotton, leather, linen, silk, nylon, paper, union and viscose
CALCOMINE DIAZO*	Direct and Developed	Cotton, leather, linen, silk and viscose
CALCO® NAPHTHOSOLS	Insoluble Azo and Developers	Cotton, linen and viscose
CALCONYL*	Azoic	Printing cotton, linen and viscose
CALCO® RAPID	Azoic	Printing cotton, linen and viscose
CALCOSOL*	Vat	Cotton, wool and viscose
CALCO® SOLUBLE VAT	Leuco Vat Esters	Cotton, linen, silk and wool
CALCOTEX*	Resin Pigment	Printing cotton, linen and viscose
CALCOTONE*	Pigment (Water dispersed)	Cotton, linen, paper and viscose
CALCOZINE*	Basic	Cotton, lakes, leather, paper, silk and viscose

*Trademark ®

Calco

AMERICAN Cyanamid COMPANY
CALCO CHEMICAL DIVISION
BOUND BROOK, NEW JERSEY
New York • Chicago • Philadelphia • Boston • Charlotte • Providence

*See ad in Catalog Section

DYES, LACQUER (cont'd)

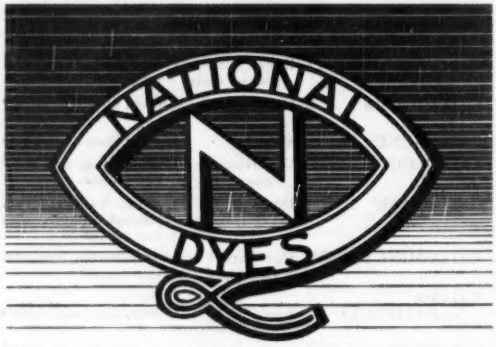
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726

Bachmeier & Co Inc, N Y — Kepec Chem Corp, Milwaukee, Wis
Foster-Hosten Co, Paterson, N J

DYES, LEATHER

Basic, acid, direct, chrome and developed dyes are used on leather. Basic dyes are used on all types of leather and require a vegetable tannage as a mordant; they are also used for topping acid, direct, chrome and developed dyes, where strength and brightness are required. Acid dyes are used on all classes of leathers and tannages where level dyeing is required. The exceptionally soluble acid dyes are used where penetration is desired, as on suedes which are buffed after dyeing. Acid dyes also are used in finishes for grain leathers and edge inks. Direct dyes are surface dyeing dyes and are used principally on chrome leathers, also in combination with acid dyes and chrome dyes. Chrome dyes are used in the same manner as acid dyes on both chrome and vegetable tanned leathers. Developed dyes are used on chrome tanned leathr where very good fastness to washing is required.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432



ph control colors

PARA DYES

for CHROME TANNED LEATHERS

NATIONAL ANILINE DIVISION

ALLIED CHEMICAL AND DYE CORPORATION

40 RECTOR STREET, NEW YORK 6, N.Y.

Boston Providence Philadelphia Chicago
San Francisco Portland, Ore. Greensboro Charlotte
Richmond Columbus, Ga. Atlanta New Orleans
Chattanooga Toronto

National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-3130
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371

Bachmeier & Co Inc, N Y — Kepec Chem Corp, Milwaukee, Wis
Jared-Holt Co, Albany, N Y — Sandoz Chem Wks, Inc, N Y

★See ad in Catalog Section

DYES, MIXED FIBRES, COTTON AND RAYON

Cotton dyes, usually the direct or substantive type, are used for dyeing cotton and rayon fabrics. Since both of these fibres consist of cellulose and differ in their affinity for dyestuff, considerable care must be taken to select dyes and to conduct the dyeing operation so that a shade as uniform as possible will be obtained on both fibres.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Pfister Chem Wks, Linden Av, Ridgefield, N J — Pennsylvania 6-4891
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Nova Chem Corp, N Y

NAPHTHOLS and BETA OXY NAPHTHOIC ACID

Pfister Chemical Works INC.

RIDGEFIELD, NEW JERSEY

DYES, MIXED FIBRES, SILK AND RAYON

Fabrics of this nature ordinarily are dyed with a combination of neutral dyeing acid dyes and direct dyes. For suppliers see Dyes, Mixed Fibres, Cotton and Rayon.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Nova Chem Corp, N Y

DYES, NYLON

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
★Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

Nova Chem Corp, N Y — Superior Prods Co, Somerville, Mass
Sandoz Chem Wks, Inc, N Y

DYES, PAPER

Specialized dyes added to the pulp and fixed either by direct absorption or by precipitation. There are three general classifications:—1 Basic dyestuffs (precipitated in combination with acids); 2 Acid dyes (precipitated in combination with certain bases); and 3, the so-called "cotton" dyes which are readily absorbed by the cellulose fibres. Natural Dyestuffs, such as Logwood, Sap Brown, etc., are also used. See also Pigments, Paper: Pigments, Blue, Red, Yellow, Brown; Mineral, Chemical, etc.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300

DYES, PAPER (cont'd)

L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Holland Color & Chem Co, Holland, Mich
Lever, C, Co, Inc, Phila, Pa

DYES, PETROLEUM

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Foster-Heaten Co, Paterson, N J
Ox Color Wks, N Y

DYES, RAYON

Rayon is dyed using the same dyes as cotton. The direct dyes are used where simplicity of application is desired or where fastness requirements are not severe. Sulfur and, more particularly, vat dyes are used whenever the best fastness is desired.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Pfister Chem Wks, Linden Av, Ridgefield, N J — Pennsylvania 6-4891
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Nora Chem Corp, N Y
Sandoz Chem Wks, Inc, N Y

DYES, RESIN

Molded plastics are colored with dyes from the various groups, especially selected to withstand the heat and the various chemicals used to disperse or dissolve readily during molding and to possess the necessary fastness properties. Cast resins are dyed with dyes especially selected from the various dye groups in regard to solubility in the resin and ability to withstand the reducing action in the kettle.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

DYES, RUBBER

Specialized products in the form of lakes, toners, and vat dyes, and usually marketed as dry powders, or paste or dispersed in rubber as batch colors, prepared so as to be impervious to vulcanization, accelerators, etc.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
★Monsanto Chem Co, Rubber Service Dept, 920 Brown St, Akron, O
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

DYES, SHOE

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Kepec Chem Corp, Milwaukee, Wis

DYES, SILK

Silk (as for instance silk hosiery and silk dress goods) is usually dyed with acid or direct dyes. For silk dress goods it often is desirable that the dyes be readily discharged with hydrosulfite in order to produce various patterns.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300

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★See ad in Catalog Section

DYES, SILK (cont'd)

Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Wharry, S A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Guyan Color & Chem Wks, Huntington, W Va — Nova Chem Corp, N Y; Sandox Chem Wks, Inc, N Y

DYES, SPECK

Speck dyes consist of direct dyes which possess a marked affinity for cotton and other forms of vegetable matter and little if any for wool. They are principally used to cover up specks of cotton, etc., in woolen fabrics without changing the shade of the wool.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140

Lanatex Chem Co, Providence, R I

DYES, STRAW

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

DYES, UNION GOODS (Cotton and Wool)

Practically all material of this sort is dyed with direct and acid dyes. The acid dyes are selected for their ability to dye the wool in a neutral bath. The fastness varies according to the dyes selected and the shade desired. For suppliers see Dyes, Acid; Dyes, Direct.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

Nova Chem Corp, N Y

DYES, WOOL

Wool ordinarily is dyed with acid dyes or chrome dyes. The acid dyes are used in piece dyeing ladies' dress goods where brightness of shade, level dyeing, moderate-to-good light fastness are the principal requirements. They are easily and quickly applied. Where particularly good fastness to washing, fulling and light are desired the chrome dyes are used. These are more expensive to apply as they require a longer time than the acid dyes.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Dyewood Co, 22 E 40 St, N Y — Murray Hill 3-5720
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5460
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Interstate Color Co, Inc, 5 Beekman St, N Y — Cortlandt 7-5281
L & R Organic Prods Co, Inc, 50 White St, N Y — Canal 6-0606
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 5-3000

Guyan Color & Chem Wks, Huntington, W Va — Poughkeepsie Dyestuff Corp, Poughkeepsie, N Y
Nova Chem Corp, N Y — Rona, L L, & Co, Inc, N Y; Sandox Chem Wks, Inc, N Y

DYNAMITE

A general term covering a large number of specific products, but essentially it is a combination of a high explosive, such as nitroglycerin, with certain oxidizing salts and suitable absorbents. For certain uses nitro-cotton may be added to dynamite. Dependent upon the amount added, a more or less gelatinous product is made which is classed as "gelatin dynamite." See explosives.

Amer Cyanamid Co, Explosives Dept, 30 Rockefeller Plaza, N Y — Circle 7-0100
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241

DYNAMITE (cont'd)

Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
Hercules Powder Co, 978 Market St, Wilmington, Del — 45201
Trojan Powder Co, Allentown, Pa

Apache Powder Co, Benson, Ariz — Natl Powder Co, Eldred, Pa

ELECTROPLATING SOLUTIONS

Solutions for the electro-deposition of metals. In addition to water the solutions contain a compound usually a salt of the metal to be deposited, and in most cases one or more substances which are added to improve the conductivity of the solution or to influence the character of deposit. These solutions properly formulated and with proper equipment give us the high type of rust protected and decorative metal finishes today.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Becco Sales Corp, Buffalo, N Y — Bedford 8300
Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
LaPlace, L J & M, 85 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Metal & Thermit Corp, 100 E 42 St, N Y — Murray Hill 6-5360
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

Donald Sales & Mfg Co, Milwaukee, Wis — Rapid Electroplating Process, Inc, Chicago, Ill
Enthone, Inc, New Haven, Conn — Udylite Corp, Detroit, Mich
Haviland Prods Co, Grand Rapids, Mich — Zialite Corp, Worcester, Mass
Linick Chem Co, Chicago, Ill

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Specialized compounds, often containing formaldehyde, injected into the arteries of corpses which act as a preservative and also impart a life-like appearance.

National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810

Huncke, Max Chem Co, Bklyn, N Y — K & L Chem Co, Chicago, Ill

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Protective colloids which intimately mix and disperse dissimilar materials ordinarily immiscible to produce a stable finished material. Examples of immiscible materials that are emulsified are oil and water, wax and water, and powder, such as abrasives, with either water, wax or oils.

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Non-ionic emulsifiers. Versatile surface active agents for making water-in-oil and oil-in-water emulsions. Solubilities ranging from completely oil soluble to completely water soluble. Compatible with each other and with many other industrial chemicals. System of emulsifier choice based on hydrophile-lipophile balance. Literature on request.

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SPAN, TWEEN AND ARLACEL: Reg. U. S. Pat. Off.

Atlas Powder Company, Canada, Ltd., Brantford, Canada

EMULSIFIERS (cont'd)

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Afrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Lecithin Co, Inc, 57-01 32 Av, Woodside, N Y — Asteria 4-4350
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Antara Prods, Gen Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Ref Co, 260 S Broad St, Phila, Pa — Pennypacker 5-2345
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Brooks, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030

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Clear base solution. Only 2-3% water. Excellent emulsifier — forms stable solution. Induces high wettability.

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★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760

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★See ad in Catalog Section

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Goldschmidt Chem Corp, 153 Waverly Pl, N Y	Chelsea 3-4792
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Hercules Powder Co, 978 Market St, Wilmington, Del	
Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Keico Co, 31 Nassau St, N Y	Beekman 3-7367
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
Maha Color & Chem Co, 355 W Ontario, Chicago, Ill	Superior 7-8432

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26 COURT ST., BROOKLYN 2, N.Y.

Marathon Corp, Chem Div, Rothschild, Wis	
Michel, M, & Co, Inc, 90 Broad St, N Y	Digby 4-3878
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Neuberg, Wm D, Co, Inc, 420 Lexington Av, N Y	Oregon 9-2550
Ninol Labs, 1719 S Clinton St, Chicago, Ill	Chesapeake 3-9625
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Oronite Chem Co, 38 Sansome St, San Fran, Calif	Exbrook 2-0923
Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Riverdale Chem Co, 324 E 147 St, Harvey, Ill	Riverdale 1880
Robinson-Wagner Co, 110 E 42 St, N Y	Murray Hill 3-1184
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Ross & Rowe, Inc, 50 Bway, N Y	Whitehall 3-7295
Sharples Chems Inc, Phila, Pa	Kingsley 5-2802
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200

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(Fatty Acid Esters)

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1719 S. Clinton Street **Chicago 16, Ill.**

EMULSIFIERS (cont'd)

Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill	Harrison 7-3541
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000



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NEUTRONYX

Non-ionic detergents with exceptional emulsifying and dispersing properties for cosmetics, insecticides, leather, industrial cleaners, etc.

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Wyodak Chem Div, Federal F'dry Supply Co, 4610 E 71 St, Cleveland, O	Michigan 8125
Carlisle Chem Wks, Reading, Pa	Kem Prods Co, Inc, Newark, N J
Colloids Inc, Newark, N J	Phoenix Chem Co, Phoenix, Ariz
Continental Chem Co, Passaic, N J	Revson, R F, Co, N Y
Drackett Co, Cincinnati, O	Universal Chem Co, Boston, Mass
Unkill Chem Corp, Cleveland, O	Warwick Chem Co, Long Is City, N Y
Kearny Mfg Co, Inc, Kearny, N J	

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Alrose Chem Co, 180 Mill St, Cranston, Providence, R I	Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Lecithin Co Inc, 57-01 32 Av, Woodside, N Y	Astoria 4-4350
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
Antara Prods, Genl Aniline & Film Corp, 444 Madison Av, N Y	Plaza 9-8540
Armour & Co, 1355 W 31 St, Chicago, Ill	Lafayette 3-7000

★See ad in Catalog Section

EMULSIFIERS, TEXTILE (cont'd)

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Ninol Labs, 1719 S Clinton St, Chicago, Ill — Chesapeake 3-9625
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Schor Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Adell Chem Co, Holyoke, Mass
Colloids Inc, Newark, N J
Commonwealth Color & Chem Co, N Y
Foster Finishing Prods Co, Phila, Pa
Kearny Mfg Co, Inc, Kearny, N J
Laurel Soap Mfg Co, Phila, Pa
Synthron Inc, Ashton, R I

KELTEX and SUPERLOID

Stabilizers for Water-Thinned Paints. Body and viscosity improved before and after thinning.

IMPROVED SLIP • RETAINS WET EDGE
CONTROLLED PENETRATION • NO SAG

KELCO COMPANY

20 N. Wacker Drive, CHICAGO 6, ILL. — 31 Nassau Street, NEW YORK 5, N. Y. — 530 W. Sixth St., LOS ANGELES 14, CAL.
Cable Address: KELCOALGIN — New York

EMULSION STABILIZERS

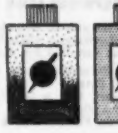
Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Antara Prods, Geni Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Dow Chem Co, Midland, Mich — Midland 500
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y — Hanover 2-3750
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kelco Co, 31 Nassau St, N Y — Beekman 3-7367
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

Kraystay

A finer, more dependable vegetable stabilizer

STABILIZES • SUSPENDS
THICKENS • EMULSIFIES • GELS

Made from pure carrageen gelose. Starch-free, tasteless, odorless, colorless. Kraystay is solving the stabilizer problem for hundreds of manufacturers of foods or pharmaceuticals of medium or low acidity. Uniformity and quality insured by Kraft laboratory control. A Kraft Product.



For more information, write Phenix Pabst-ott Company, Department CI-1, 460 E. Illinois St., Chicago 11, Ill.

EMULSION STABILIZERS (cont'd)

Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Phenix-Pabst-ott Co, 460 E Illinois St, Chicago, Ill
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Algin Corp of Amer, N Y
Brackett Co, Cincinnati, O

EMULSIONS, POLYSTYRENE

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Dow Chem Co, Midland, Mich — Midland 500
★Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371

Union Bay State Co, Inc, Cambridge, Mass

EMULSIONS, VINYL

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243

Eastern Color & Chem Co, Providence, R I
Goodrich, B F, Chem Co, Cleveland, O
Hukill Chem Corp, Cleveland, O
Nielco Chems, Detroit, Mich

ENAMELS, ACID-RESISTING (Enamels Defined)

Official A.S.T.M. definition "A special kind of paint which flows out to a smooth coat when applied and dries to a smooth, glossy, relatively hard, permanent solid when exposed in a thin film to the air. An enamel always contains a pigment and has considerable hiding power and color. Some enamels dry to a flat or eggshell finish instead of a gloss finish." Specially prepared enamels because of certain ingredients exhibit the characteristic of being very acid resistant.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Advance Paint Co, Indianapolis, Ind
Alabastine Paint Prods, Chicago, Ill
Carboline Co, St Louis, Mo
Electro Chem Supply & Eng Co, Emmaus, Pa
Gagne, Alfred, & Co, Inc, Bklyn, N Y
Lowe Bros Co, Dayton, O
McDougall-Butler Co, Inc, Buffalo, N Y
Nukem Prods Corp, Buffalo, N Y
Stille-Young Corp, Chicago, Ill
Toch Bros Inc, Staten Is, N Y
United Lacquer Mfg Corp, Linden, N J
Vita-Var Corp, Newark, N J
Western States Lacquer Co, Los Angeles, Calif

ENAMELS, ALUMINUM

Enamels formulated with aluminum paste or powder and used extensively as a sealer; for application to metal and wood surfaces of all kinds (both interior and exterior) etc.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Advance Paint Co, Indianapolis, Ind
Bostwick Labs Inc, Bridgeport, Conn
Briggs-Maroney Co, Inc, Everett, Mass
Midland Industrial Finishes Co, Waukegan, Ill
Pruett-Schaeffer Chem Co, Pittsburgh, Pa
Sahlin Color & Chem Co, Camden, N J

ENAMELS, BAKING

Baking enamels formulated largely with modified alkyd resins of the oxidizing types, or combinations of alkyd resins with oil-modified phenol aldehyde resins, vinyl resins, etc., are being used widely in the finishing of automobiles, furniture, etc. Such baking enamels usually require from 45 minutes to 60 minutes at 200° F. to 350 F. for drying to a hard thoroughly dried film.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

★See ad in Catalog Section

ENAMELS, BAKING (cont'd)

Advance Paint Co, Indianapolis, Ind
Arco Co, Cleveland, O
Briggs-Maroney Co, Inc, Everett, Mass
Bute, James, Co, Houston, Texas
Devere Co, Racine, Wis
Hague, Alfred, & Co, Inc, Bklyn, N Y
Lowe Bros Co, Dayton, O
Maas & Waldstein Co, Newark, N J
Midland Industrial Finishes Co, Waukegan, Ill
Minnesota Paints, Inc, Minneapolis, Minn
Nonweiler, A P, & Co, Oshkosh, Wis
Pruett-Schaeffer Chem Co, Pittsburgh, Pa
Reliance Varnish Co, Chicago, Ill
Toch Bros Inc, Staten Is, N Y
United Lacquer Mfg Corp, Linden, N J
Western States Lacquer Co, Los Angeles, Calif

ENAMELS, BITUMINOUS

Coatings formulated with bituminous materials and finding wid. variety of uses, particularly for waterproofing and where resistance to alkalies and acids is essential.

Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

ENAMELS, BOILER

Usually prepared in black to preserve and improve the appearance of heating plants. See also Coatings, Boiler.

Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Globe Paint Wks, Inc, Williamsport, Pa

ENAMELS, BREWERS

Enamels, largely formulated with heat reactive phenolic solutions, used on the inside of beer drums and tanks containing alcoholic beverages, as a protective coating. Must not be soluble, even to the slightest degree, in alcohol, and must not impart any taste, odor or flavor to the contents.

Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

ENAMELS, CONCRETE

Specially formulated enamels for application to concrete, masonry, brick, etc., to give semi- or full gloss finish and a protective coating. Should be particularly impervious to water, acids, alkalies, etc. Largely used on concrete floors. Should wear well, should not crack or chip and should stand up under repeated washings. Some products in this classification are formulated with a rubber base.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Sahlin Color & Chem Co, Camden, N J
Toch Bros Inc, Staten Is, N Y

ENAMELS, DIPPING

Specialized enamels used for dipping small objects; should possess excellent flowing properties and drip clean quickly. Usually of the baking type for large-scale manufacturing operations.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Globe Paint Wks, Inc, Williamsport, Pa
Midland Industrial Finishes Co, Waukegan, Ill
Nonweiler, A P, & Co, Oshkosh, Wis
Pruett-Schaeffer Chem Co, Pittsburgh, Pa
Reliance Varnish Co, Chicago, Ill

ENAMELS, EGG SHELL FINISH

Special enamels which do not have the usual high gloss finish characteristic of ordinary enamels, but do give a semi-gloss. Largely used for decorative purposes where a flat paint or a high gloss enamel are undesirable.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Briggs-Maroney Co, Inc, Everett, Mass
Eagle Picher Co, Cincinnati, O
McDougall-Butler Co, Inc, Buffalo, N Y
Ruehl Paint Co, Cincinnati, O

ENAMELS, FLAT

Specially formulated enamels which dry to a dull instead of the usual gloss finish.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Briggs-Maroney Co, Inc, Everett, Mass
McDougall-Butler Co, Inc, Buffalo, N Y

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

ENAMELS, FURNITURE

Special enamels in wide variety of color used for decorating furniture, etc. Usually a baking or spraying type is employed industrially

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Bute, James, Co, Houston, Texas
McDougall-Butler Co, Inc, Buffalo, N Y
Reliance Varnish Co, Chicago, Ill
Sterling Paint & Varnish Co, Malden, Mass
Vita-Var Corp, Newark, N J

ENAMELS, GLASS

Pigmented finely ground glasses, usually melting between 540 and 600°C. Used for coloring the entire surface of glassware or decorating glassware with colored designs.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Ceramic Color & Chem Mfg Co, New Brighton, Pa

ENAMELS, LEATHER

Specialized coatings used to cover leather, artificial leather, etc. Should not crack unduly and provide a tough, elastic surface.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171

ENAMELS, METAL

Coatings specially formulated for application to metal surfaces. Should have special bonding properties. Usually supplied for baking, spraying, or brush application.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Alabastine Paint Prods, Chicago, Ill
Bute, James, Co, Houston, Texas
Devere Co, Racine, Wis
Ebony Paint Mfg Co, Kansas City, Mo
Egyptian Lacquer Mfg Co, Newark, N J
Globe Paint Wks, Inc, Williamsport, Pa
McDougall-Butler Co, Inc, Buffalo, N Y
Maas & Waldstein Co, Newark, N J
Midland Industrial Finishes Co, Waukegan, Ill
Minnesota Paints, Inc, Minneapolis, Minn
Quigley Co, Inc, N Y
Reliance Varnish Co, Chicago, Ill
Ruehl Paint Co, Cincinnati, O

ENAMELS, OIL-PROOF

Finishing enamels, oil resistant and usually also water, alkali, and heat resistant, finding wide application on motor frames, housings, engines, and all types of metal products. They are produced either for baking, for spraying, dipping or brushing. See also Varnishes, Engine.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
McDougall-Butler Co, Inc, Buffalo, N Y

ENAMELS, PIPE-LINE

Enamels made with an asphalt or tar base and often reinforced with asbestos fillers

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907
U S Gutta Percha Paint Co, Providence, R I

ENAMELS, PORCELAIN

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Ceramic Color & Chem Mfg Co, New Brighton, Pa

ENAMELS, REFRIGERATOR

Enamels with strong adhesion, flexibility, heat resistance, etc., used in place of vitreous enamels for coating refrigerators, range and stove parts; supplied for wood or metal and for air dry or bake.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Arco Co, Cleveland, O
Interchemical Corp, Newark, N J
Minnesota Paints, Inc, Minneapolis, Minn
Reliance Varnish Co, Chicago, Ill
Toch Bros Inc, Staten Is, N Y
Vita-Var Corp, Newark, N J
Western States Lacquer Co, Los Angeles, Calif

ENAMELS, RESIN BASE

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Carboline Co, St Louis, Mo
Eagle Picher Co, Cincinnati, O
Egyptian Lacquer Mfg Co, Newark, N J
Globe Paint Wks, Inc, Williamsport, Pa
Midland Industrial Finishes Co, Waukegan, Ill
Nonweiler, A P, & Co, Oshkosh, Wis
Western States Lacquer Co, Los Angeles, Calif

ENAMELS, STOVE

Products which produce a black, high gloss enamel finish on stove-pipes and other metal finishes, dry without disagreeable odor and resistant to the action of heat. Term also designates enamels used in finishing operations in stove factories. See Enamels, Porcelain.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Midland Industrial Finishes Co, Waukegan, Ill

ENAMELS, THERMOPLASTIC

Specialized enamels compounded with synthetic heat-setting resins, resistant to many corrosive solvents, oils, minerals or organic acids, alkalies, etc.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Carboline Co, St Louis, Mo

ENAMELS, VITREOUS

Ceramic Color & Chem Mfg Co, New Brighton, Pa

ENAMELS, WIRE

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Tosh Bros Inc, Staten Is, N Y

ENAMELS, WRINKLY

Specially formulated products which when baked from 10 to 20 minutes in an oven in which the gases of combustion are retained, develop a uniform wrinkly texture or stipple finish.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Interchemical Corp, Newark, N J
New Wrinkle Inc, Chicago, Ill

ETCHING COMPOUNDS

Products applied to glass to produce a frosted effect (sometimes termed matted or satin finish); by varying strength and duration of the frosting bath, various effects from a smooth satin finish to a dense white sandpaper-like finish are possible; by covering certain parts with suitable stencils, etc., designs are thus produced.

Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Seidner & Enequist, Inc, 86 Hausman St, Bklyn, N Y — Evergreen 8-7450
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383

McKay Chems Co, Inc, Bklyn, N Y
Neilson Chem Co, Detroit, Mich
Spazier Soap & Chem Co, Santa Monica, Calif

EXPLOSIVES, AGRICULTURAL, INDUSTRIAL

Specially formulated explosives prepared for the typical blasting problems, such as stump blasting, deep cultivation or subsoiling, tree planting, tree rejuvenation, land drainage, ditching, stream correction, control of erosion, filling of gullies, vertical drainage of wet spots, etc. Also specially formulated compounds for use in road building, construction, deepening of harbors, excavating, etc. See also dynamite. Manufacturers in all cases provide specific recommendations which should be followed closely.

Amer Cyanamid Co, Explosives Dept, 30 Rockefeller Plaza, N Y — Circle 7-0100
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
Hercules Powder Co, 978 Market St, Wilmington, Del
Trojan Powder Co, Allentown, Pa — 45201

Apache Powder Co, Benson, Ariz
Natl Powder Co, Eldred, Pa

EXTREME PRESSURE BASES

Complex sulfur and chlorine compounds added to lubricants to make them more suitable for extreme pressure conditions.

EXTREME PRESSURE BASES (cont'd)

Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

EXTRUDING COMPOUNDS

Synthetic resin plastics which are not compressed or hardened in a closed mold, but which are treated in a mold open at the inlet and outlet sides. With increasing pressure the mass passes from the solid to the plastic state, and is then gradually hardened, all the time being in periodical or continual motion. On the discharge side of the extruding machine special devices are used to form the material as it emerges into various shapes. For suppliers see Molding Powders-Plastic.

Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726

Kerns, L E, Co, Chicago, Ill

FABRIC SHINE REMOVERS

Preparations usually sponged on fabrics, to remove the sheen or gloss caused by excessive wear or rubbing, and to renew the original nap.

Stahl Finish Co, 23 Cutler St, Peabody, Mass — Peabody 371
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

FAT LIQUORS

Process of "fat-liquoring" comprises three distinct operations: coloring, filling, and oiling, but often all are done to one step. Fat-liquoring proper consists of filling leather with soaps, oils, starch, china clay, tallow, egg yolk, and a number of other materials to strengthen the fibres and render the leather soft and pliable, at the same time giving it the desired color. Process is usually carried out at a high temperature in the drum tumbler and changes the leather to black or colors. Prepared fat-liquors are scientifically compounded products containing a wide variety of substances, depending upon the producer and the type of leather to be processed.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8900
Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Fiber Chem Corp, Matawan, N J
Hart Prods Corp, N Y
Kehew Bradley Co, Boston, Mass
Lestez Chem Co, Phila, Pa
Phoenix Oil Prods Corp, Newark, N J
Standard Chem Co, Phila, Pa
White & Bagley Co, Worcester, Mass

FERTILIZER CONDITIONERS AND FILLERS

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Floridin Co, Warren, Pa — 329
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
U S Gypsum Co, Industrial Div, 300 W Adams St, Chicago, Ill — State 2-6100

Amer Lignite Prods Co, Ione, Calif
Dicalite Div, Los Angeles, Calif
Edgar Bros Co, Metuchen, N J
Phoenix Chem Co, Phoenix, Ariz
Quaker Oats Co, Chicago, Ill

FERTILIZERS, CHEMICAL CONCENTRATED

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0564
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Davies Nitrate Co Inc, 118 Liberty St, N Y — Rector 2-6095
Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8500
Nitrogen Prods Inc, 450 7 Av, N Y — Bryant 9-1045
Nitrogen Prods, Inc, Benzol Div, 926 Harrison Av, Kearny, N J — Bergen 4-5478
Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919
Page Chem, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0905
★Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y — Bowling Green 9-7600

Fresno Agricultural Chem Co, Fresno, Calif
Hardy, M W, & Co, Inc, N Y
Industrial Chem Prods Co, Phila, Pa
International Ore & Fertilizer Corp, N Y
Madison Glue Corp, N Y
Miller Chem Co, Omaha, Nebr
Monarch Chem Wks, Inc, Omaha, Nebr
Permalawn Prods Co, Evanston, Ill
Phillips Chem Co, Bartlesville, Okla
Phoenix Chem Co, Phoenix, Ariz

FILLERS, CRACK AND CREVICE

Powders, mixed with cold water, which make a non-shrinking, quick-drying cement for patching cracks, holes, crevices, etc., in plaster and cement, etc.

FILLERS, CRACK AND CREVICE (cont'd)

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
★Monsanto Chem Co, Western Div, 911 Western Av, Seattle, Wash — Ma 4203

Advance Paint Co, Indianapolis, Ind
Alabastine Paint Prods, Chicago, Ill
Berry Asphalt Co, Magnolia, Ark
McDougall-Butler Co, Inc, Buffalo, N Y
Sika Chem Corp, Passaic, N J
Smooth-On Mfg Co, Jersey City, N J
Tamms Silica Co, Chicago, Ill
Varniton Co, Burbank, Calif
Wolverine Finishes Corp, Grand Rapids, Mich

FILLERS, INSULATING

Substances, usually fire-proof, not edible to vermin and rodents etc., employed in buildings, factories, plants, etc., to shut out cold damp air and drafts, and to effect substantial fuel savings.

Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Dicalite Div, Los Angeles, Calif
Mineralite Sales Corp, N Y

FILLERS, LEATHER

Products which impart permanent flexibility, cover cuts and imperfections in the leather and impart a smooth, even surface. Should not "pipe," flake or crack when the leather is bent.

Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817

Buffalo Extract & Supply Co, Buffalo, NY
Edgar Bros Co, Metuchen, N J

FILLERS, MASONRY

Heavy coating compositions, often composed of water-proof oil, asbestos fibre and paint pigments, which are applied with a brush or by other mechanical means to exterior surfaces, principally of brick, concrete, or stucco, to place a waterproof coating on porous or leaky walls. Coatings of this type will bridge small cracks, fill in the pores, and, as they come in colors, may be used for decorative purposes also.

Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Smooth-On Mfg Co, Jersey City, N J

FILLERS, PAINT

Materials giving body, strength or other properties to paints.

Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
U S Gypsum Co, Industrial Div, 300 W Adams St, Chicago, Ill — State 2-6100
Whittaker, Clark & Daniels Inc, 260 W Broadway, N Y — Walker 5-3749
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Advance Paint Co, Indianapolis, Ind
Chem & Pigments Co, Oakland, Calif
Dicalite Div, Los Angeles, Calif
Edgar Bros Co, Metuchen, N J
McDougall-Butler Co, Inc, Buffalo, N Y
Mineralite Sales Corp, N Y

FILLERS, WOOD

Pastes or liquids specially for sealing wood surface to make it smooth and fill the cellular spaces so that the succeeding finishing coats will not penetrate but will provide a surface finish. Pastes are often used for all open-grained woods, such as oak, ash, chestnut, while liquids are preferred for close-grained woods, such as pine, fir, gumwood, and cypress. Fillers should also aid as a bond between the wood and the finishing coats.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
★Monsanto Chem Co, Western Div, 911 Western Av, Seattle, Wash — Ma 4203
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
U S Gypsum Co, Industrial Div, 300 W Adams St, Chicago, Ill — State 2-6100

Advance Paint Co, Indianapolis, Ind
Bruce, E L, Co, Memphis, Tenn
Dolan, V J, & Co, Inc, Chicago, Ill
Grand Rapids Wood Finishing Co, Grand Rapids, Mich
McDougall-Butler Co, Inc, Buffalo, N Y
Reliance Varnish Co, Chicago, Ill
Ruehl Paint Co, Cincinnati, O
Stille-Young Corp, Chicago, Ill
Wecher, H M, & Son Co, Phila, Pa
Wolverine Finishes Corp, Grand Rapids, Mich

FILM BASE, SCRAP

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Blum, Paul, Co, Buffalo, N Y

FILM BASES

Products of either a nitrocellulose or cellulose acetate composition used for the production of photographic films.

Celanese Corp of Amer, Plastics Div, 180 Madison Av, N Y — Murray Hill 9-6000
Du Pont de Nemours, E I, & Co (Inc), (Photo Prods Dept), Wilmington, Del — Wilmington 4-5121
Hercules Powder Co, 978 Market St, Wilmington, Del

FILTER AIDS

Substances that facilitate the removal of suspended matter in a filtration process.

Colorado Asbestos & Mining Co, Box 65, S Braintree, Mass — Braintree 2-3214
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Floridin Co, Warren, Pa — 329
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

FILTER AIDS — Celite — MINERAL FILLERS

CELITE FILTER AIDS are produced by Johns-Manville in many types of varying degrees of fineness to provide maximum flow rates with required clarity in the filtering of scores of products, from sugar and syrups to drugs and lubricants.

CELITE MINERAL FILLERS have been developed in varying grades for many industrial processes where specific properties are required. They provide high absorption, light weight, large surface area, low refractive index and superior suspension.

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FILTER AIDS (cont'd)

Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Dicalite Div, Los Angeles, Calif

FILTER MATERIALS

Products which are used for the clarification of sugars, chemicals, oils, fruit juices, varnish, and a wide variety of products where a filtering operation is necessary.

Angel, H Reeve, & Co, Inc, 52 Duane St, N Y — Cortlandt 7-6577
Colorado Asbestos & Mining Co, Box 65, S Braintree, Mass — Braintree 2-3214
Du Pont de Nemours, E I, & Co (Inc), (Photo Prods Dept), Wilmington, Del — Wilmington 4-5121
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Johnson & Johnson, Filter Prods Div, 4943 W 65 St, Chicago, Ill — Portsmouth 7-0800

Dicalite Div, Los Angeles, Calif

FINISHES, ALCOHOL-RESISTANT—see also Lacquers, Alcohol-Resistant; Varnishes; Acid-Alkali-Resistant

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Alabastine Paint Prods, Chicago, Ill
Arco Co, Cleveland, O
Carboline Co, St Louis, Mo
Interchemical Corp, Newark, N J
Raffi & Swanson, Inc, Chelsea, Mass

FINISHES, BAKE—see also Enamels Baking; Lacquers; Baking; Varnishes, Baking

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Bute, James, Co, Houston, Texas
Egyptian Lacquer Mfg Co, Newark, N J
Interchemical Corp, Newark, N J
Lowe Bros Co, Dayton, O
Varcum Chem Corp, Niagara Falls, N Y

FINISHES, LEATHER

Preparations used to impart softness, pliancy, "feel," in certain cases resistance to water.

TANNING SPECIALTIES

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Alum Stable Oils
Fatliquors • Adhesives
Leather Sponging Compounds
Low Cold Test Oils
Wetting Agents
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NOPCO CHEMICAL CO.
Logan & Davis Sts., Harrison, N. J.

FINISHES, LEATHER (cont'd)

Amer Polymer Corp, 101 Foster St, Peabody, Mass	Peabody 2222
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn	Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del	Wilmington 4-5121
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill	Boulevard 6400
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kelco Co, 31 Nassau St, N Y	Beekman 3-7367
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9660
Stahl Finish Co, 23 Calier St, Peabody, Mass	Peabody 371
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000
Apex Chem Co, N Y	
Fiber Chem Corp, Matavan, N J	
Kelner Co, Newark, N J	
Kepec Chem Corp, Milwaukee, Wis	
O'Brien, Jos, Leather Finish Corp, Little Falls, N Y	
Pyroxylin Prods, Inc, Chicago, Ill	

FINISHES, LEATHER GLAZED

Specially formulated products used to give a beautiful, uniform lustre, sheen, "feel," to glazed leathers, dress side-leathers, etc.

Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill	Boulevard 6400
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kelco Co, 31 Nassau St, N Y	Beekman 3-7367
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Kelner Co, Newark, N J	
O'Brien, Jos, Leather Finish Corp, Little Falls, N Y	

FINISHES, PATENT LEATHER

Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill	Boulevard 6400
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kelco Co, 31 Nassau St, N Y	Beekman 3-7367

FINISHES, PIGMENTED LEATHER

Highly specialized finishes used by leather-dressers for renovating or restoring surface colors.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn	Stamford 3-2171
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill	Boulevard 6400
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kelco Co, 31 Nassau St, N Y	Beekman 3-7367
Kelner Co, Newark, N J	
Kepec Chem Corp, Milwaukee, Wis	
O'Brien, Jos, Leather Finish Corp, Little Falls, N Y	

FINISHES, TEXTILE

Starches, gums, softening agents, filling agents, and weighters used to treat fabrics after mercerising and dyeing operations.

STANDAFIN

TEXTILE FINISHES

for wool, cotton and rayon:

resins, weighters, fillers and water repellent finishes.

STANDARD CHEMICAL PRODUCTS, Inc.

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Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Polymer Corp, 101 Foster St, Peabody, Mass	Peabody 2222
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass	Peabody 2222
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I	Centredale 0951
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn	Stamford 3-2171
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Drew, E F, & Co Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill	Boulevard 6400
Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kali Mfg Co, 427 Meyer St, Phila, Pa	Regent 9-2370
Kelco Co, 31 Nassau St, N Y	Beekman 3-7367
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill	Superior 7-8432
Michel, H, & Co, Inc, 90 Broad St, N Y	Digby 4-3878
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010

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LYKOPON: the first American sodium hydrosulfite—and still the foremost

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A cation active finish

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AMPROZYME
For Starch and Protein conversion

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SULPHONATED OILS—
Castor and Vegetable Bases

PARNOL
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LUPOMIN Q*
Quaternary Ammonium Compound

ORATOL L-48*
A penetrant and detergent

MONOPOLE OIL*
A double sulphonated Castor Oil

GUMS—
Arabic, Karaya, Tragacanth

HYDROSULFITES

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★See ad in Catalog Section

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Penetrants • Crepe Soaking Treatments
Plasticizers • Detergents
Waterproofing Chemicals • Wetting Agents
Sulfated Oils, Acids, Amides, Esters

NOPCO CHEMICAL CO.
Logan & Davis Sts., Harrison, N. J.

FINISHES, TEXTILE (cont'd)

Marningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2560
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Algin Corp of Amer, N Y
Amalgamated Chem Corp, Phila, Pa
Apex Chem Co, N Y
Bryant Chem Corp, North Quincy, Mass
Cides Corp, Jersey City, N J
Colloids Inc, Newark, N J
Commonwealth Color & Chem Co, N Y
Continental Chem Co, Passaic, N J
Eastern Color & Chem Co, Providence, R I
Foster Finishing Prods Co, Phila, Pa
Joy Chem Co, Pawtucket, R I
Laurel Soap Mfg Co, Phila, Pa
Leatex Chem Co, Phila, Pa
Marlowe-Van Loan Corp, High Point, N C
Seydel-Woolley & Co, Atlanta, Ga
Synthron Inc, Ashton, R I
Titan Chem Prods Inc, Jersey City, N J
Warwick Chem Co, Long Is City, N Y

FINISHES, WRINKLE

Atlas Powder Co, Industrial Finishes Dept, Canal & Luffee Sts, Stamford, Conn — Stamford 3-2171
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700
General Cement Mfg Co, Rockford, Ill
Interchemical Corp, Newark, N J
New Wrinkle Inc, Chicago, Ill

FIRE EXTINGUISHER CHARGES

Chemicals or compounds employed in fire extinguishers to provide a cloud of non-combustible gases, liquids, or fire-smothering foam or coating which surrounds any burning object and produces a medium which will not support combustion. See **Sodium Bicarbonate, Carbon Tetrachloride, etc.**

City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Dow Chem Co, Midland, Mich — Midland 500
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Mearl Corp, 153 Waverly Pl, N Y — Chelsea 2-3680
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Archem Corp, Crete, Nebr
Bell Co Inc, Chicago, Ill
Bostwick Labs Inc, Bridgeport, Conn
C-O-Two Fire Equipment Co, Newark, NJ
K & L Chem Co, Chicago, Ill
Solshine Mfg Co, Fall River, Mass

FIREPROOFING COMPOUNDS, FABRIC

Specially formulated compounds that emit **flame-quenching** vapors, that deliquesce, or readily fuse and **protect the fiber from combustion** by excluding air. Usually contained in the **formulae are:** boric acid or borates, and ammonium phosphates or sulfates. Where laundry-fast flame-proofing agents are required the insoluble stannates and tungstates are usually employed.

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Hercules Powder Co, 978 Market St, Wilmington, Del
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Harrison 7-3541
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201
Amer Lumber & Treating Co, Chicago, Ill
Chem Specialties, Chicago, Ill
Industrial Chem Prods Co, Phila, Pa
Price Fire & Water Proofing Co, Poughkeepsie, N Y
Sun Chem Corp, Long Is City, N Y
Textile Proofers Inc, Jersey City, N J
Wayne Soap Co, Detroit, Mich
Western Michigan Chem Co, Muskegon, Mich

FIREPOOFING COMPOUNDS, WOOD

Chemicals or specially prepared combinations of chemicals which when applied to wood will not actively support combustion, thus preventing the wood from bursting into flame, but charring instead. In most cases the chemicals used to impregnate the wood when heated emit a smothering gas or composition of gases which will keep oxygen from air from supporting combustion.

Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201
Price Fire & Water Proofing Co, Poughkeepsie, N Y

FIXATIVES, PERFUMES

Materials that blend and make permanent perfume odors. Until recently the fixatives were exclusively of animal origin (musk, civet, castoreum and ambergris are the most important) but synthetically produced fixatives are now available, as for example, artificial musk

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Taimadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Chaleyer, Ph, Inc, N Y
Cosmetic Mfg Supply Co, Chicago, Ill
Evergreen Chem Co, Inc, N Y
Lautier Fils Inc, N Y
Maschmeijer, Jr, A, Inc, N Y
Naugatuck Aromatics Div, N Y
N Y Aromatics Corp, N Y

FIXERS, PHOTOGRAPHIC

Du Pont de Nemours, E I, & Co (Inc), (Photo Prods Dept), Wilmington, Del — Wilmington 4-5121
Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

FIXING AGENTS, TEXTILE

Products to improve the fastness of direct dyes in after-treatment of the goods.

Abree Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Bernard Color & Chem Corp, 335 Hudson St, N Y — Watkins 4-5400
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Titan Chem Prods Inc, Jersey City, N J

DAVISON

Flatting Agents and Extenders

SYLOID* 308 FOR LACQUERS
SYLOID* 404 FOR VARNISHES

Finely divided siliceous materials for use by paint, varnish and lacquer manufacturers. • • • Syloid Flatting Agents and Extenders offer greater flatting efficiency, economy of use, economy of operation, high purity and uniformity. Films containing Syloid 308 or 404 display superior toughness, durability and clarity.

*T. M. REG. APP FOR

THE DAVISON CHEMICAL CORPORATION
BALTIMORE-3 • MARYLAND

FLATTING AGENTS

Products which impart a flat or dull appearance to finishes of enamels, lacquers, varnishes.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Metasap Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356

★See ad in Catalog Section

FLATTING AGENTS (cont'd)

Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Dicalite Div, Los Angeles, Calif

FLAVORS, BAKERS' AND CONFECTIONERS'

Wide variety of imitation and true fruit flavor bases employed by bakers and confectioners.

MANUFACTURERS OF

ATLAS

FLAVORING EXTRACTS
GENUINE FRUIT
AND IMITATION
•
PURE AND IMITATION
VANILLA EXTRACTS
CONCENTRATES

H. KOHNSTAMM & CO., INC.
Manufacturing Chemists • Established 1851
83-93 Park Place, New York 7 — 11-13 E. Illinois Street, Chicago 11

Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Firmenich & Co, 250 W 18 St, N Y — Watkins 9-5220
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Givaudan Flavors, Inc, 330 W 42 St, N Y — Lackawanna 4-6500

FLAVOR
AND AROMA PRINCIPLES

Ethavan (Ethyl Vanillin Monsanto)
Vanillin Monsanto, U.S.P. **Coumarin Monsanto**
Methyl Salicylate Monsanto, U.S.P.
(Synthetic Oil of Wintergreen)
For specifications, see listings in Raw Materials Section.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
1700 South Second Street
St. Louis 4, Mo.
Ethavan: Reg. U.S. Pat. Off.

MONSANTO
CHEMICALS—PLASTICS

SERVING INDUSTRY... WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

Kohnstamm, H & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200

VANILLIN

ZIMCO LIGNIN VANILLIN, C. P., U. S. P.

A Natural Source Vanillin Originated and Manufactured in the United States.

A Finer Vanillin of Exquisite Aroma.

Consult your flavor supplier

Stearns Chemicals
SUBSIDIARY OF STERLING DRUG INC.
1450 BROADWAY, NEW YORK 18, N. Y.
410 Lake Shore Drive, Chicago 11, Ill.
FACTORY: HOPEWELL, VIRGINIA

A GUIDE TO
A BETTER BEGINNING

Wholesale Price List
FLORASYNTH LABORATORIES INC.

FLAVOR MATERIALS
ESSENTIAL OILS
PERFUME BASES

Florasynth LABORATORIES, INC.
CHICAGO 6 · NEW YORK 61 · LOS ANGELES 21
DALLAS 1 • DETROIT 2 • MEMPHIS 1 • NEW ORLEANS 12
ST. LOUIS 2 • SAN BERNANDINO • SAN FRANCISCO
Florasynth Labs. (Canada) Ltd. — Montreal • Toronto • Vancouver • Winnipeg
Florasynth Laboratorios de Mexico S. A. — Mexico City

DEPENDABLE PRODUCTS SINCE 1871

NATURAL and SYNTHETIC
FLAVORS
SEASONING OILS
and
FLAVOR RAW MATERIALS
"A Flavor for Every Purpose"

WRITE US FOR CATALOG

FRITZSCHE Brothers, Inc.
Est. 1871

PORT AUTHORITY BUILDING, 76 NINTH AVENUE, NEW YORK 11, N. Y.

BRANCH OFFICES and *STOCKS: *Atlanta, Ga., Boston, Mass., *Chicago, Ill., Cincinnati, O., Cleveland, O., *Los Angeles, Calif., Philadelphia, Pa., San Francisco, Calif., *St. Louis, Mo., *Toronto, Canada and *Mexico, D. F. FACTORY: Clifton, N. J.



Remember!

Come to NORDA for

"A favorite to flavor it"

Good taste means Norda . . . good taste means good sales. Norda Flavors are popular. You will see why when you try them. Ask Norda for samples of just what you want. Send today for new Norda Flavor Catalogue, too.

Norda ESSENTIAL OIL AND CHEMICAL COMPANY, INC.
601 West 26th Street, New York 1, N. Y.
CHICAGO LOS ANGELES ST. PAUL MONTREAL
TORONTO HAVANA MEXICO CITY
LONDON PARIS

FLAVORS, BAKERS' AND CONFECTIONERS' (cont'd)

★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Rosi & Rowe, Inc, 50 Bway, N Y	Whitehall 3-7295
Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
Sterwin Chems, Inc, 1450 Bway, N Y	
Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091

Bestever Prods Co, Chicago, Ill	Laning, E M, Co, Irvington, N J
Chaleyer, Ph, Inc, N Y	Maschmeijer, Jr, A, Inc, N Y
Felton Chem Co, Inc, Bklyn, N Y	Rowe & Co, Norfolk, Va
Fries & Fries Inc, N Y	Ryland, H C, Inc, N Y
Globe Extracts Inc, Bklyn, N Y	Shields Buying Service, N Y

FLAVORS, BOTTLERS'

Wide variety of preparations, both natural and synthetically prepared, used for flavoring soft drinks and other beverages.

Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Firmenich & Co, 250 W 18 St, N Y	Watkins 9-5220
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Givaudan Flavors, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Kohnstamm, H & Co Inc, 83 Park Pl, N Y	Barclay 7-9760
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110



MM&R FLAVOR OILS & SPICE OILS

For flavor control, hundreds of food producers are using MM&R Quality Flavors and Spice Oils. Standard flavors and special formula flavors. Quotations and testing samples on request.

MAGNUS, MABEE & REYNARD, INC.
16 DESBROSSES ST. NEW YORK, N. Y.
221 N. LA SALLE ST. CHICAGO, ILL.

FLAVORS, BOTTLERS' (cont'd)

Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091

Berghausen, E, Chem Co, Cincinnati, O	Fries & Fries Inc, N Y
Felton Chem Co, Inc, Bklyn, N Y	Globe Extracts Inc, Bklyn, N Y

complete supplies

flavor bases

More than 151 years of Progress and Experience

D.O. DODGE & OLCOTT, INC.
180 Varick Street • New York 14, N. Y.

ESSENTIAL OILS • AROMATIC CHEMICALS
PERFUME BASES • VANILLA • FLAVOR BASES

FLAVORS, CONDIMENTS

Products which add brilliancy, eliminate specks, do not discolor and keep flavor definite and uniform. The more generally used flavors are: Barbecue relish, garlic, onion, horseradish, pork and bean; sour and sweet pickle, tomato catsup, blended spices, etc.

Dalton-Cooper Inc, 200 W 34 St, N Y	Longacre 4-2910
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Givaudan Flavors, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Weeks, O J, Co Inc, 16 Hudson St, N Y	Barclay 7-2091

Felton Chem Co, Inc, Bklyn, N Y	Fries & Fries Inc, N Y

Flavor Materials and Specialties

Our laboratories
can develop the formulae
to meet your special needs.

FIRMENICH & CO.
250 W. 18th ST., NEW YORK 11, N.Y.
CHICAGO OFFICE: 612 NORTH MICHIGAN AVENUE
IN CANADA: CARAMEED, LTD., 350 WALLACE AVENUE, TORONTO
GENEVA, SWITZERLAND . . . PARIS, FRANCE

FIRMENICH & CIE.
SUCCESSEURS DE
CHUIT, NAEF & CIE.
GENÈVE SUISSE

★See ad in Catalog Section

Flavoring Materials of Natural and Synthetic Origin

True Fruit Flavors and Imitation Flavors

Vanilla Extracts and Imitation Vanilla Flavors

Givaudan Flavors Inc.

330 West 42nd Street • New York 18, N. Y.

SEELEY & CO., INC.

Basic Fruit Concentrates

True Fruit and Imitation Flavors

136 Liberty Street, New York 6, N. Y.

REctor 2-1140

FLAVORS, FRUIT, NATURAL

Fruit flavors prepared from the natural fruit and preserved by harmless products to prevent decomposition and spoilage.

Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Givaudan Flavors, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Kohnstamm, H & Co Inc, 83 Park Pl, N Y	Barclay 7-9760
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Destrosses St, N Y	Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Ross & Rowe, Inc, 50 Bway, N Y	Whitehall 3-7295
Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
Felton Chem Co, Inc, Bklyn, N Y	Globe Extracts Inc, Bklyn, N Y
Fries & Fries Inc, N Y	Shields Buying Service, N Y

TRUE FRUIT and IMITATION ESSENCES

Branches in: Chicago, San Francisco, Montreal

Representatives in: Philadelphia, Waukesha, Wisc.

Los Angeles - Toronto - Winnipeg

George Lueders & Company

Established 1885

427-429 Washington Street

New York 13, N. Y.

FLAVORS, FRUIT, SYNTHETIC

Preparations, synthetically produced, which faithfully reproduce the flavoring properties of the natural fruits. Should be perfectly wholesome and free from all deleterious substances, and are generally employed in flavoring beverages, jams, jellies, candies, condiments and other products.

Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dow Chem Co, Midland, Mich	Midland 500

FLAVORS, FRUIT SYNTHETIC (cont'd)

Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Firmenich & Co, 250 W 18 St, N Y	Watkins 9-3220
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Givaudan Flavors, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
L & R Organic Prods Co, Inc, 50 White St, N Y	Canal 6-0606
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Destrosses St, N Y	Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Polak & Schwarz Inc, 667 Washington St, N Y	Watkins 4-5570
Ross & Rowe, Inc, 50 Bway, N Y	Whitehall 3-7295
Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
Chaleyer, Ph, Inc, N Y	Globe Extracts Inc, Bklyn, N Y
Cosmetic Mfg Supply Co, Chicago, Ill	Laning, E M, Co, Irvington, N J
Felton Chem Co, Inc, Bklyn, N Y	Ryland, H C, Inc, N Y
Fries & Fries Inc, N Y	

True Fruit and Imitation Flavors Essential Oils

Polak & Schwarz, Inc.

667 WASHINGTON STREET, NEW YORK, N. Y.

CHICAGO—173 West Madison St.

TORONTO—2001 Eglinton Ave. East, Toronto 13, Canada

FLAVORS, LIQUORS AND CORDIALS

Special formulae employed by the blender and rectifier for flavoring alcoholic beverages. The following are the most common: for whiskies, Bourbon, rye, Scotch, Irish; for gins, Holland, London, Tom; for brandies, apple, apricot, blackberry, sherry, cognac, peach; for rums, Jamaica, New England, Santa Cruz, etc.; for cordials, Absinthe, Anisette, Benedictine, Chartreuse, Cointreau, Curacoa, Creme de Cafe, Creme de Cocoa, Creme de Menthe, Kirschwasser, Kummel, Maraschino, Orange, Rose, etc.

Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Givaudan Flavors, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Kohnstamm, H. & Co Inc, 83 Park Pl, N Y	Barclay 7-9760
Lueders, Geo, & Co. 427 Washington St, N Y	Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Destrosses St, N Y	Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Ross & Rowe, Inc, 50 Bway, N Y	Whitehall 3-7295
Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
Felton Chem Co, Inc, Bklyn, N Y	Fries & Fries Inc, N Y

FLAVORS, MEAT PACKERS

Products employed by manufacturers of bologna, frankfurters, liverwurst, sausage, salt and smoked meats, etc., to improve the taste, odor of their products.

Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Givaudan Flavors, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Kohnstamm, H. & Co Inc, 83 Park Pl, N Y	Barclay 7-9760
Lueders, Geo, & Co. 427 Washington St, N Y	Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Destrosses St, N Y	Walker 5-1110

★See ad in Catalog Section

FLAVORS, MEAT PACKERS (cont'd)

Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333

Felton Chem Co, Inc, Bklyn, N Y

FLAVORS, PHARMACEUTICAL

Firmenich & Co, 250 W 18 St, N Y — Watkins 9-5220

FLAVORS, TOBACCO

Variety of preparations used on tobacco to impart special flavor and aroma.

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Firmenich & Co, 250 W 18 St, N Y — Watkins 9-5220
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Givaudan Flavors, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Ross & Rowe, Inc, 90 Dway, N Y — Whitehall 3-7295
Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700

Felton Chem Co, Inc, Bklyn, N Y
Fries & Fries Inc, N Y
Maschmeijer, Jr, A, Inc, N Y

FLOOR SURFACERS

Preparations applied to new or worn concrete floors to prevent dusting, disintegration, formation of ruts and holes, and to correct such conditions where they already exist; also other types to prevent dusting, splintering, and disintegration of wood floors and to renew the life, resilience, toughness and durability of the wood by restoring to its pores natural gums, oils, and resins that wear and tear have removed.

Carey, Philip, Mfg Co, Cincinnati, O — Valley 3000

Amer Flurosil Co, Cincinnati, O
Asphalt Emulsion Service Inc, N Y
Cromfield Prods Corp, Los Angeles, Calif
Master Builders Co, Cleveland, O
Metalcrete Corp, Cleveland, O
Rulon, Ralph V, Inc, Phila, Pa
Tuferete Co, Inc, Des Moines, Iowa

FLOTATION REAGENTS

Abrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Mineral Dressing Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Dow Chem Co, Midland, Mich — Midland 500
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hercules Powder Co, 978 Market St, Wilmington, Del
Nopco Chem Co, Lopan & Davis Sts, Harrison, N J — Harrison 6-6200
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Synthetic Chems Inc, 335 BicLean Blvd, Paterson, N J — Sherwood 2-1726

Quigley Co, Inc, N Y
Wheeler, Reynolds & Stauffer, San Fran, Calif

FLUXES

Products used to remove the metallic oxides (rust) from the surface of metals before soldering or welding to provide a clear, clean surface for the bond.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661

Callahan, Geo, & Co, Inc, Closter, N J
Foundry Services Inc, N Y
Haviland Prods Co, Grand Rapids, Mich
Linick Chem Co, Chicago, Ill

FLUXES, FOUNDRY

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919
Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Acme Resin Corp, Forest Park, Ill
Foundry Services Inc, N Y
Smith, E W, Chem Co, Los Angeles, Calif
Stevens, Frederic B, Inc, Detroit, Mich

FLUXES, RUBBER

Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175

FLUXES, SOLDERING

Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-[illegible]
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300

Amer Chem Paint Co, Ambler, Pa
Callahan, Geo, & Co, Inc, Closter, N J
Handy & Harman, N Y
Jordan Co, Chicago, Ill
Lake Chem Co, Chicago, Ill
Linick Chem Co, Chicago, Ill
Natl Lead Co, N Y
Neilson Chem Co, Detroit, Mich
Ruby Chem Co, Columbus, O
Wayne Soap Co, Detroit, Mich

FLUXES, WELDING

Welding fluxes in the form of powder are used in welding certain metals. In general, the purposes of fluxes are as follows:—1. To float all impurities to the surface of the molten metal; 2. To cleanse the weld by chemical action; 3. To protect the molten metal against oxidation by contact with the air, and to dissolve any oxide that may have existed in the metal at the weld; 4. To aid fusion, between the molten metal from the filler rod and the metal being welded. In the welding of steel castings, plates and wrought iron, no flux is required ordinarily, but the use of the proper flux when welding with cast iron, bronze, brass, copper and aluminum is essential only from the standpoint of weld quality, but is economical in speeding up the rate of welding.

Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Anti-Borax Compound Co, Fort Wayne, Ind
Handy & Harman, N Y
Linde Air Prods Co, N Y

FLY SPRAY BASES (Petroleum)

Carefully refined kerosene, comparatively colorless, odorless, and tasteless, used by producers of fly sprays, cattle sprays, horticultural sprays, etc., and to which is added an active ingredient and perfume material. Usual minimum B.P. 325°F.-maximum, 510°F. The relative proportions of light and heavy high boiling, slow evaporating fractions vary according to each manufacturer's refining practices and the specifications presented by users. Cont.—drums; tanks.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Dow Chem Co, Midland, Mich — Midland 500
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Hercules Powder Co, 978 Market St, Wilmington, Del
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

Calif Spray-Chem Corp, Richmond, Calif
Union Oil Co of Calif, Los Angeles, Calif
World Spray Co, Inc, Los Angeles, Calif

FOAMING AGENTS

Preparations employed to produce a stable foam or lather. Uses—in manufacture of lathering soapless shampoos; increasing foam in tooth pastes, shaving creams, etc.

Abrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Antara Prods, Genl Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935

ANTARA®
SURFACTANTS
—one of them may make your products easier to sell

DETERGENTS LIQUID, NON-IONIC . . . POWDERED, ANIONIC

EMULSIFIERS LIQUID, NON-IONIC . . . NON-IONIC, PASTE . . . POWDERED, ANIONIC

DISPERSANTS LIQUID, NON-IONIC . . . NON-IONIC, PASTE

WETTING AGENTS LIQUID, NON-IONIC . . . LIQUID, ANIONIC . . . POWDERED, ANIONIC

FOAMING AGENTS LIQUID, NON-IONIC . . . LIQUID, ANIONIC . . . POWDERED, ANIONIC

ANTARA® PRODUCTS

GENERAL ANILINE & FILM CORPORATION

444 MADISON AVENUE, NEW YORK 22, N. Y.

*See ad in Catalog Section

FOAMING AGENTS (cont'd)

Baco Sales Corp, Buffalo, N Y — Bedford 8300
Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
DeLamar-Hendrey Chem Co, Inc, 461 W Erie St, Chicago, Ill — Michigan 2-2860
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Mearl Corp, 153 Waverly Pl, N Y — Chelsea 2-3680
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Berghausen, E, Chem Co, Cincinnati, O — Warwick Chem Co, Long Is City, N Y
Cosmetic Mfg Supply Co, Chicago, Ill

T.A.M.
ZIRCONIUM & TITANIUM PRODUCTS
Registered U. S. Pat. Off.

*TAM *Zirconite

a super-refractory sand, core, and mold wash with high resistance to "burn in."

*Registered Trade Mark

TITANIUM ALLOY MFG. DIVISION
NATIONAL LEAD COMPANY
Office: 111 Broadway, N. Y. C. Plant: Niagara Falls, N. Y.

For other products and services see our ads in Catalog Section

FOUNDRY CORE WASH

Clay, charcoal, graphite, etc., washes applied to foundry cores before using. Employed in any place where a strong bond is required.

Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
★Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

Borden Co, N Y
Buckingham Prods Co, Detroit, Mich
Foundry Services Inc, N Y
McCormick, J S, Co, Pittsburgh, Pa
Minerallte Sales Corp, N Y
Stevens, Frederic B, Inc, Detroit, Mich
Superior Flake Graphite Co, Chicago, Ill

FOUNDRY FACING

A graphite product used on the surfaces of sand and similar type molds to provide clean and smooth cleavage between mold and casting surfaces.

Bark, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
★Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

Buckingham Prods Co, Detroit, Mich
Donald Sales & Mfg Co, Milwaukee, Wis
Knefler Bates Co, Indianapolis, Ind
McCormick, J S, Co, Pittsburgh, Pa
Stevens, Frederic B, Inc, Detroit, Mich
Superior Flake Graphite Co, Chicago, Ill

FOUNDRY FLOUR

Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
★Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

Knefler Bates Co, Indianapolis, Ind
McCormick, J S, Co, Pittsburgh, Pa

T.A.M.
ZIRCONIUM & TITANIUM PRODUCTS
Registered U. S. Pat. Off.

*TAM *Zirconite Flours

have a high resistance to "burn in", thereby reducing cleaning costs and producing smooth castings.

* Registered Trade Mark

TITANIUM ALLOY MFG. DIVISION
NATIONAL LEAD COMPANY
Office: 111 Broadway, N. Y. C. Plant: Niagara Falls, N. Y.

For other products and services see our ads in Catalog Section

FOUNDRY PARTING COMPOUNDS

Products used at the joint or place where the parts of the foundry mold are to separate to prevent them from sticking to each other. Should be free from any substance that draws or retains moisture.

Bark, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
Zaphar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Acheson Colloids Corp, Port Huron, Mich
Borden Co, N Y
Buckingham Prods Co, Detroit, Mich
McCormick, J S, Co, Pittsburgh, Pa
Stevens, Frederic B, Inc, Detroit, Mich
Superior Flake Graphite Co, Chicago, Ill

FOUNDRY SAND

Bark, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Goris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
★Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

FRITS, CERAMIC GLAZE

Specially prepared glasses, made by fusing together, various constituents of a glaze (usually alkali oxide or carbonate with some form of silica or clay) used to impart a gloss surface to ceramic ware.

Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300

Ceramic Color & Chem Mfg Co, New Brighton, Pa
Eagle Picher Co, Cincinnati, O

FULLING COMPOUNDS

Products (usually a specialized soap and additional substances) used in the wool fulling process to swell or increase the body of the fibre and its pliability, so as to make it more workable.

Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0931
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

FUMIGANTS

Substances used to produce vapors which destroy insects, rodents, etc. More common are: hydrocyanic acid, calcium cyanide, sodium cyanide, chloropicrin, sulfur dioxide, ethylene oxide, trichlorethylene, carbon bisulfide, paradichlorbenzene, sulfur, nicotine, formaldehyde, carbon, tetrachloride, ethylene dichloride, methyl formate, ethyl formate, methyl bromide, naphthalene, etc. See also specific chemicals.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Cyanamid Co, Agric Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Shell Chem Corp, Eastern Div, 500 5 Av, N Y — Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif — Exbrook 2-5400
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Beechem Labs, St Johns, Mich
Eagle Soap Corp, Huntington, Ind
Huntington Labs, Huntington, Ind
Wheeler, Reynolds & Stauffer, San Fran, Calif

FUNGICIDES, COPPER

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Andrews, W H E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Nuodex Prods Co Inc, 850 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Phelps Dodge Refg Corp, 40 Wall St, N Y — Whitehall 4-0560
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201

Calif Spray-Chem Corp, Richmond, Calif
Chipman Chem Co, Inc, Bound Brook, N J
Miller Chem Co, Omaha, Nebr
Permalawn Prods Co, Evanston, Ill
Rodgers, Thos T, Chem Labs, Milwaukee, Wis

FUNGICIDES, FARM

Products specially adaptable or formulated particularly for the control of fungus growth in corn, wheat, and other grains, cotton, tobacco, flax, etc.

★See ad in Catalog Section

FUNGICIDES, FARM (cont'd)

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Phelps Dodge Refg Corp, 40 Wall St, N Y — Whitehall 4-0560
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Stieh, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201

Archem Corp, Crete, Nebr
C-A Wood Perserver Co, St Louis, Mo
Culpman Chem Co, Inc, Bound Brook, N J
Fresno Agricultural Chem Co, Fresno, Calif
Miller Prods Co, Portland, Ore
Nor-Ed Chem Co, Yorkshire, N Y
World Spray Co, Inc, Los Angeles, Calif

FUNGICIDES, GARDEN

Specialized preparations for the control of fungus growth on flowers and vegetables.

Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Phelps Dodge Refg Corp, 40 Wall St, N Y — Whitehall 4-0560
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Stieh, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265

Archem Corp, Crete, Nebr
Fresno Agricultural Chem Co, Fresno, Calif
Miller Prods Co, Portland, Ore
World Spray Co, Inc, Los Angeles, Calif

FUNGICIDES, LEATHER

★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Cuprinol Div, Darworth, Inc, Simsbury, Conn — Simsbury 42
Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Dow Chem Co, Midland, Mich — Midland 500
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750
Stieh, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265

Rodgers, Thos T, Chem Labs, Milwaukee, Wis

FUNGICIDES, LUMBER

Chapman Chem Co, Dermon Bldg, Memphis, Tenn — 37-8316
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Stieh, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201

Amer Lumber & Treating Co, Chicago, Ill
C-A Wood Perserver Co, St Louis, Mo
Chemineal Co, Detroit, Mich
Rodgers, Thos T, Chem Labs, Milwaukee, Wis

FUNGICIDES, ORCHARD

Specialized products used to control fungus growth on fruit and ornamental trees.

Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Lemke, B L, & Co Inc, 199 Main St, Lodi, N J — Prescott 7-5805
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Phelps Dodge Refg Corp, 40 Wall St, N Y — Whitehall 4-0560
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Stieh, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265

Chipman Chem Co, Inc, Bound Brook, N J
Fresno Agricultural Chem Co, Fresno, Calif

FUNGICIDES, SEED

Preparations used to treat seed to prevent various harmful fungus growths; to increase germination and growth of seedlings by permitting the stored plant food in the seed to be fully used by the plants.

Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Stieh, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265

Archem Corp, Crete, Nebr
Fresno Agricultural Chem Co, Fresno, Calif

FUNGICIDES, TURF

Preparations used on golf greens and fine lawns to prevent and cure brown patch, etc.

Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Stieh, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265

FUR CLEANING COMPOUNDS

Composition Materials Co, Inc, 28 W 44 St, N Y — Bryant 9-3277
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650

Afta Solvents Corp, N Y
Patek & Co, San Fran, Calif
Phoenix Oil Prods Corp, Newark, N J

GAS ODORANTS (For Natural and Manufactured Gases)

Preparations which are added to natural gas, carburetted propane or butane, mixed manufactured and natural gases, etc., to give by their characteristic odor a warning to people of leaking gases and to permit repair crews to detect losses from leaks in mains, etc. A warning odor should suggest gas and should be sufficiently strong and distinctive to definitely attract attention to its source.

Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

ORONITE CHEMICAL CO. (CAL.)
THE NAME TO WATCH IN CHEMICALS
REG. U.S. PAT. OFF.
CALODORANT GAS ODORANT
ALERT GAS ODORANT
• Cresylic Acids • Polybutenes
• Naphthenic Acids • Wetting Agents
• Sodium Sulfonates
COPPER NAPHTHENATE PHTHALIC ANHYDRIDE
ALIPHATIC ACIDS DETERGENT D-40
ORONITE CHEMICAL COMPANY
38 Sansome Street, San Francisco 4, Calif. • 30 Rockefeller Plaza, New York 20, N.Y.
Standard Oil Bldg., Los Angeles 15, Calif. • 600 S. Michigan Avenue, Chicago 5, Ill.
824 Whitney Bldg., New Orleans 12, La.

GASOLINE ANTI-KNOCK COMPOUNDS

Products added to gasoline to correct the tendency of a fuel to "knock" or detonate. The phenomenon known as knock, or detonation, is caused by an abnormally rapid pressure rise or explosion within the engine cylinder. This violent combustion delivers a hammer-like blow to the piston head and combustion chamber walls. Aside from the disagreeable sound produced when a fuel is knocking, a serious loss in engine power results. The anti-knock characteristics of a fuel can be improved by either adding another fuel of higher quality (alcohol, toluol, benzol, etc.), or by the addition of a knock suppressor.

Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121

GERMICIDES

Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700

GERMICIDES (cont'd)

Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750
Sterwin Chems, Inc, 1450 Bway, N Y

Archem Corp, Crete, Nebr
Cidex Corp, Jersey City, N J
Hockwald Chem Co, San Fran, Calif
Huntington Labs, Huntington, Ind
Kemiko Mfg Co, Irvington, N J
Lanair Chem Corp, Chicago, Ill
Uncle Sam Chem Co, Inc, N Y
Vestal Chem Co, St Louis, Mo

GERMICIDES, AGRICULTURAL

Preparations used to destroy harmful microbes and bacteria that attack plants. Among the more important products employed are (1) formaldehyde, (2) merthiolate, and (3) various proprietary compounds.

Abrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Dow Chem Co, Midland, Mich — Midland 500
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Metalsalts Co, 200 Waqaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

Archem Corp, Crete, Nebr
Miller Chem Co, Omaha, Nebr
Whitmoyer Labs, Inc, Myerstown, Pa

GLAZES, MATT CERAMIC

Usually compounds of silicates, consisting of silica, bases, and metallic oxides, used to give rough coatings to pottery or iron ware.

Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Reusche, L, & Co, Newark, N J

GLAZING COMPOUNDS

Preparations used to set glass in either wood or steel sash; should remain soft and pliable indefinitely; should not crumble or dust; must possess good resistance to temperature changes. For suppliers see Putty, Acid-Resistant

Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

Armstrong Co, Detroit, Mich
Fort Pitt Chem Co, Pittsburgh, Pa
Harrison & Co, Inc, Haverhill, Mass
Horn, A C, Co, Inc, Long Is City, N Y
Landen Putty Wks, Malden, Mass
Pecora Paint Co, Inc, Phila, Pa

GLUES, CAN

Specialized glues used to attach spot labels to tin cans and other metal containers; should possess unusual adhesive strength, should not wrinkle or discolor paper labels, should act properly in cold weather, resist sweating of metal containers when removed from a refrigerator to a warm, humid room, should not be affected by process in which the cans are sterilized after the labels are applied; should be waterproof.

Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219

Arabol Mfg Co, N Y
Borden Co, N Y
Marstin Adhesive Co, Wollaston, Mass
Rogers Isinglass & Glue Co, Gloucester, Mass
Scriptex Prods Co, Phila, Pa

GLUES, CASEIN

Specially formulated products produced usually from casein with sodium bicarbonate or borax, or alum, etc., water and a mold preventive, and used in the place of glue as a general adhesive.

Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y — Hanover 2-3750
★Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
★Monsanto Chem Co, Western Div, 911 Western Av, Seattle, Wash — Ma 4203
National Casein Sales, 601-619 W 80 St, Chicago, Ill — Vincennes 6-7300

NATIONAL

UNIFORM — HIGH QUALITY

RESIN GLUES

CASEIN GLUES

VEGETABLE GLUES

CASEINS

CASEIN CASEIN

Meeting your requirements — Army-Navy Specifications

National Casein Sales

601-613 WEST 80th STREET CHICAGO 20

Eastern Branch: National Casein Co.
Broad & Fulton Sts., Riverton, NJ.

NATIONAL

GLUES, CASEIN (cont'd)

Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267

Adler, A, & Son, Phila, Pa
Amer-Marietta Co, Seattle, Wash
Borden Co, N Y
Colloids Inc, Newark, N J
Hewitt, C B, & Bros, Inc, N Y
Hughes Glue Co, Detroit, Mich
Kepec Chem Corp, Milwaukee, Wis
Marstin Adhesive Co, Wollaston, Mass
Polymer Chem Co, Cincinnati, O

GLUES, FISH

Products prepared by boiling fish waste with water, separating off the oil and concentrating the glue liquor until, on cooling, a brownish, heavy, syrupy mass is formed. Used widely as an adhesive in a variety of fields, particularly the preparation of upper dressings for shoes, in bottom finishes, and in the manufacture of inks.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120

Amer Writing Ink Co, Inc, Boston, Mass
Commercial Paste Co, Columbus, O
Diamond Ink & Adhesive Co, Milwaukee, Wis
Green's Paste Wks, Syracuse, N Y
Rogers Isinglass & Glue Co, Gloucester, Mass
Royal Glue Co, Baltimore, Md
Safran Chem & Supply Co, Lynn, Mass

GLUES, HATTERS'

Dark colored, soft varieties of glue used in hat making. For suppliers see Glues, Sizing.

Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530

Burtonite Co, Nutley, N J
Hewitt, C B, & Bros, Inc, N Y
Madison Glue Corp, N Y
Shields Buying Service, N Y
Standard Glue Co, N Y

GLUES, MARINE

Waterproof adhesive usually containing dissolved rubber, asphalt and shellac, for which U. S. Navy Specifications call for two types. 52 G 10d for aeronautic waterproof marine glue; 52 G 6c for ship marine glue.

Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Ferdinand, L W, & Co, Inc, Newton Lower Falls, Mass
Hughes Glue Co, Detroit, Mich
Midland Glue Prods Co, Inc, Detroit, Mich
Rulon, Ralph V, Inc, Phila, Pa

GLUES, PADDING, FLEXIBLE

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219

Burtonite Co, Nutley, N J
Commercial Paste Co, Columbus, O
Green's Paste Wks, Syracuse, N Y
Hughes Glue Co, Detroit, Mich
Madison Glue Corp, N Y
Polymer Chem Co, Cincinnati, O
Shumons Labs Inc, Long Is City, N Y
Standard Glue Co, N Y
Standard Paste & Glue Co, Inc, Chicago, Ill

GLUES, PEARL

Either hide or extracted bone glue in pellet or pearl form produced by dripping the glue from a colander into a congulating bath (usually benzol). For suppliers see Glues, Hide, Raw Materials Section

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000

Lox Mfg Co, Kansas City, Mo
Standard Glue Co, N Y

KOPPERS

Penacolite® Adhesives

Penacolite resorcinol-formaldehyde synthetic resin adhesives are products especially adapted to the bonding of wood and other cellulosic materials, rubber goods, and laminated phenolic plastics. The Penacolites are thermo-setting resins which cure at room temperature to give water-proof, fungus-proof, and weather-proof bonds.

KOPPERS COMPANY, INC.
CHEMICAL DIVISION
Pittsburgh 19, Pa.

GLUES, RESIN

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240

GLUES—*LIQUID OR DRY*

STARCH • DEXTRINE • CASEIN • ANIMAL • RESIN

MACHINE OR HAND APPLICATION • REGULAR AND WATERPROOF GRADES • FLEXIBLE TYPES • SLOW OR FAST-SETTING

For all Fabricating, Packaging, Sealing, or Labeling Operations.

Paisley Adhesive

SEND FOR FREE DATA SHEET

Get an Adhesive Operation Data Sheet —your guide towards getting the ONE best adhesive for the specific operation you describe. Write now. No obligation.

PAISLEY PRODUCTS INCORPORATED

Manufacturers of Glues, Pastes, Resin Adhesives, Cements and Related Chemical Products

1770 CANALPORT AVE., CHICAGO 16, ILL. ★ 630 W. 51st STREET, NEW YORK 19, N. Y.

GLUES, RESIN (cont'd)

★Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
★Monsanto Chem Co, Western Div, 911 Western Av, Seattle, Wash — Ma 4203
National Casein Sales, 601-619 W 80 St, Chicago, Ill — Vincennes 6-7300
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500

Acme Resin Corp, Forest Park, Ill
Adler, A. & Son, Phila, Pa
Amer-Marietta Co, Seattle, Wash
Arabol Mfg Co, N Y
Borden Co, N Y
Burtonite Co, Nutley, N J
Findley, F G, Co, Milwaukee, Wis
Hewitt, C B, & Bros, Inc, N Y
Hughes Glue Co, Detroit, Mich
Midland Glue Prods Co, Inc, Detroit, Mich
Polymer Chem Co, Cincinnati, O
Scriptex Prods Co, Phila, Pa
Standard Glue Co, N Y
Standard Paste & Glue Co, Inc, Chicago, Ill

GLUES, SIZING

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Ducke, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860

Burtonite Co, Nutley, N J
Colloids Inc, Newark, N J
Madison Glue Corp, N Y
Standard Glue Co, N Y

GLUES, TANNERS'

Adhesives formulated specially as sizing agents.

Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371

Burtonite Co, Nutley, N J
Madison Glue Corp, N Y
Standard Glue Co, N Y

GLUES, WALL PAPER

Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219

Burtonite Co, Nutley, N J
Findley, F G, Co, Milwaukee, Wis
Madison Glue Corp, N Y
Standard Glue Co, N Y

GREASE ANTI-RUST

Protective coatings to metals to prevent oxidation of the surface.

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184

Alox Corp, Niagara Falls, N Y
Amer Lanoline Corp, Lawrence, Mass
Crystal Soap & Chem Co, Inc, Phila, Pa
Doyle, James W, Corp, Detroit, Mich
Phoenix Oil Prods Corp, Newark, N J
Wayne Soap Co, Detroit, Mich

GREASE BASES

Compounded products added to greases to improve their characteristics, to give consistency and body to oils, and in particular instances to impart to the greases special properties for certain applications as for example, in differentials and transmissions of automobiles, etc.

Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Metasap Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

GREASES

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310

Gulf Oil Corp, Pittsburgh, Pa
Kerns, L R, Co, Chicago, Ill
Madison Glue Corp, N Y
N Y & N J Lubricant Co, N Y
Pennsylvania Refg Co, Cleveland, O
Warren Refg & Chem Co, Cleveland, O

GREASES, CABLE

Special greases, usually containing graphite as one of the constituents, used for the lubrication of wire ropes, chains, exposed gears, cranes, derricks, dredges, steam shovels, pile drivers, pump plungers, hoisting engines, quarry machinery, mining machinery, elevator plunges, elevator guides, fire hydrant valves, etc., where maximum degree of protection against the action of water is equally important as the question of lubrication.

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Ironsides Co, Columbus, O

GREASES, CUP

Usually lime or soda soap greases, made in a wide range of consistency, according to the relative percentages of mineral oil and soap in them and the viscosity of the mineral oil employed. Should be free from fillers, but may contain graphite. Usually produced by mixing mineral oil with a calcium soap to give a desired "body" or "consistency." Most cup greases contain from 1 to 3% water.

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310

N Y & N J Lubricant Co, N Y

GREASES, FIBRE

Soft, fibrous greases having a very high melting point. Like engine greases they are "soda soap" greases. The peculiar fibrous or spongy texture is caused by the way the batch is handled in the kettle. They are, however, boiled greases and contain only a faint trace of water. They have a low coefficient of friction, and because of their nature they form a very strong lubricating film. They are not generally suitable for under-water lubrication as the soda soaps are soluble and will dissolve.

Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500

N Y & N J Lubricant Co, N Y

GREASES, GRAPHITE

Lubricants for various purposes in which graphite has been incorporated to improve the quality, particularly in greases used where high temperatures are encountered.

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700

Asbury Graphite Mills Inc, Asbury, N J
Impoil Co, Inc, Jersey City, N J
Superior Flake Graphite Co, Chicago, Ill

GREASES, LUBRICATING

Products of various formulation used for the lubrication of heavy machinery parts, etc.

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600

Gulf Oil Corp, Pittsburgh, Pa
Kerns, L R, Co, Chicago, Ill
N Y & N J Lubricant Co, N Y
Varnlton Co, Burbank, Calif
Warren Refg & Chem Co, Cleveland, O
White & Bagley Co, Worcester, Mass

GREASES, SLUSHING

Used to coat new steel or iron castings, etc., preparatory to shipping or storing to prevent rust and corrosion.

Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500

Amer Lanoline Corp, Lawrence, Mass

GREASES, TANNERS'

Materials compounded of rancid fish oil, resinous substances, lime and sulfate, and the residues of skins, membranes, and hair obtained from the chamoising process and used in finishing other skins.

Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600

Madison Glue Corp, N Y
Phoenix Oil Prods Corp, Newark, N J

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

GREASES, TEXTILE

Special lubricating greases for textile machinery. Generally made from refined oils so as to be non-staining when unavoidably placed on fabrics.

Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

N Y & N J Lubricant Co, N Y

GREASES, WATERPROOFING

Heavy, plastic grease usually employed to seal and lubricate automobile waterpump bearings and packing glands. Also greases of various formulation, but usually of a calcium base with graphite incorporated or some modification that does not melt or dissolve in hot water. Soda base greases wet-out readily, but are very soluble and work into soapy emulsions when used in the presence of moisture.

Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500

GREASES, WIRE-DRAWING

Specialized products for lubrication in steel wire plants.

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100

Amer Lanoline Corp, Lawrence, Mass
Ironsides Co, Columbus, O
Kerns, L R, Co, Chicago, Ill
N Y & N J Lubricant Co, N Y

GRINDING COMPOUNDS

Proprietary preparations used as lubricants in machining operations.

Ferguson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Marathon Corp, Chem Div, Rothschild, Wis
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345

Alox Corp, Niagara Falls, N Y
Carborundum Co, Niagara Falls, N Y
Exolon Co, Tonawanda, N Y
Harrison & Co, Inc, Haverhill, Mass
Kerns, L R, Co, Chicago, Ill
Reilly-Whiteman-Walton Co, Combohocken, Pa
White & Bagley Co, Worcester, Mass

GROUTING COMPOUNDS

Preparations of various formulations used for filling cracks and crevices, holes, etc., in masonry, concrete, stucco, etc.

Carsit Waterproofing Corp, Chicago, Ill
Fort Pitt Chem Co, Pittsburgh, Pa

GUM REMOVER

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100

Afta Solvents Corp, N Y
Impoil Co, Inc, Jersey City, N J

GUMS, BOOT & SHOE

Adhesives used in place of sole stitching operation in shoe manufacture.

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880

Burtonite Co, Nutley, N J
Union Bay State Co, Inc, Cambridge, Mass

GUMS, ENVELOPE

Adhesives used in envelope manufacture.

Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219

Commercial Paste Co, Columbus, O
Findley, F G, Co, Milwaukee, Wis

GUMS, PAPER BOX MAKERS'

Specialized adhesives used in the paper box and corrugated carton industries.

Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219

Burtonite Co, Nutley, N J
Findley, F G, Co, Milwaukee, Wis

GUMS, SYNTHETIC

Gums used in the manufacture of varnishes, etc., produced synthetically (as contrasted with those of natural origin) as the ester gums are important members of the group prepared from rosin. Other synthetic gums are prepared for copal, kauri, and anime resins, and other hydroxy-compounds, such as resorcinol, phenol, or carbohydrates. See also Gum Ester; Resins, Synthetic.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

GUMS, TEXTILE PRINTING

Specially processed natural gums (boiled under pressure, clarified and filter-pressed to remove all traces of grit and foreign matter) and synthetically manufactured resins, used for machine printing on silk, rayon, or cotton. Requirements are: that they assist in effecting sharp prints, flow freely, and wash out easily.

Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Dunkel, Paul A, & Co, Inc, 1 Wall St, N Y — Hanover 2-5750
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hercules Powder Co, 978 Market St, Wilmington, Del
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kelco Co, 31 Nassau St, N Y — Beekman 3-7367
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Bryant Chem Corp, North Quincy, Mass
Hart Prods Corp, N Y
Lanatex Chem Co, Providence, R I

HARDENERS, CONCRETE

Chemicals and preparations which protect and preserve concrete, as concrete floors with heavy traffic, by re-inforcing the porous structure and providing a smooth surface.

HARDENERS, CONCRETE (cont'd)

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Dow Chem Co, Midland, Mich — Midland 500
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Sundheimer, Henry, Co, 103 Park Av, N Y — Murray Hill 5-4214
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 5-3600

Carsit Waterproofing Corp, Chicago, Ill
Euclid Chem Co, Cleveland, O
Fort Pitt Chem Co, Pittsburgh, Pa
Hampden Color & Chem Co, Springfield, Mass
Master Builders Co, Cleveland, O
Preservative Prods Co, N Y
Reardon Industries, Cincinnati, O
Sika Chem Corp, Passaic, N J
Smooth-On Mfg Co, Jersey City, N J
Sullivan Co, Memphis, Tenn
Tamms Silica Co, Chicago, Ill
Tuferete Co, Inc, Des Moines, Iowa

HARDENERS, PHOTOGRAPHIC

Du Pont de Nemours, E I, & Co (Inc), (Paste Prods Dept), Wilmington, Del — Wilmington 4-5121
Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
Hunt, Philip A, Co, Palisades Park, N J — Leonia 4-4000
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980

Blum, Paul, Co, Buffalo, N Y
Fond Chem Co, Los Angeles, Calif

HEAT TRANSFER MEDIUMS

Preparations used for heat transfer and storage purposes. Used in power plant boilers, chemical processes, oil distillation, laboratory heating work, candy kitchens, linseed oil factories, and various process industries.

Davies Nitrate Co Inc, 118 Liberty St, N Y — Rector 2-6095
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600

HUMECTIFIERS

Some materials, such as textiles, regenerated cellulose, tobacco, leather, glue, etc., must remain flexible and slightly moist to retain their usefulness, and conditioning or humectant agents are used to maintain these conditions of moisture indefinitely. A "humectant" is described as a hygroscopic material suitable for incorporation with many materials of everyday use to attract water to keep them slightly moist and flexible. Each humectant has a different "humectant" range, meaning the degree of change or range in moisture content in the face of changing relative humidity conditions.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
★Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-207
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880

MOISTURE STABILIZER

Sorbitol gives products "moisture stability"—ability to resist undesirable effects of humidity changes. . . longer retention of original "condition."

Non-volatility, high viscosity, and chemical stability give sorbitol superior plasticizing and conditioning action.

Industrial Chemicals Department

ATLAS POWDER COMPANY

Wilmington 99, Delaware

Atlas Powder Company, Canada, Ltd., Brantford, Canada

HYDRAULIC FLUIDS

Special preparations which are non-volatile, non-corrosive, and unaffected by weather, used in connection with the hydraulic-brake systems on automobiles.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
★Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
†Dow Chem Co, Midland, Mich — Midland 500

★See ad in Catalog Section

HYDRAULIC FLUIDS (cont'd)

Dow Chem Co, Midland, Mich — Midland 500
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Ohio-Apex Inc, Nitro, W Va — Nitro 152
Bell Co Inc, Chicago, Ill
K & L Chem Co, Chicago, Ill

Celanese
CHEMICALS

HYDRAULIC FLUIDS
NON FLAMMABLE
LUBRICANT ADDITIVES

LINDOL* HF
tricresyl phosphate compounds

SOLVENTS — KETONES
ALDEHYDES — GLYCOLS
ALCOHOLS — PLASTICIZERS

INTERMEDIATES

See Celanese Advertisement in Catalog Section
CELANESE CORPORATION OF AMERICA
CHEMICAL DIVISION, Dept. 61
180 Madison Avenue, New York 16
Sales Representatives:
NEW YORK • BOSTON • CHICAGO • DETROIT • SAN FRANCISCO
*Reg. U. S. Pat. Off.

HYDROTROPIC SOLUTIONS

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

IMPREGNATING SOLUTIONS

Special types of thermosetting resins dissolved in suitable solvents used for impregnating paper and fabric laminated sheets, motor armatures, electrical coils, wood, composition; also for bonding resistance units, etc.

Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Amer-Marietta Co, Seattle, Wash
Chemineal Co, Detroit, Mich

INHIBITORS, CORROSION

Variety of products used principally in the art of pickling iron and steel in various forms; to remove scale. Addition agents in acid solutions to control or prevent solution of metals. Some advantages of use of inhibitors are:—economy of acid and steel; reduction in the embrittlement effects of diffused hydrogen in the steel itself; in certain cases a large reduction in the fume or spray from the pickling tanks; reduction in maintenance costs.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Lecithin Co Inc, 57-01 32 Av, Woodside, N Y — Astoria 4-4350
Antara Prods, Genl Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Bower, Henry, Chem Mfg Co, Gray's Ferry Rd & 29 St, Phila, Pa — Howard 5-2100
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Consolidated Chem Industries, Inc, 640 Mellie Esperson Bldg, Houston, Texas — CA2371
Cornwell Chem Corp, Cornwells Hgts, Pa — Cornwells 0302
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Hercules Powder Co, 978 Market St, Wilmington, Del
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919

TEXINE INHIBITOR
Retards action of Muriatic Acid on metals
50 pound cans and 400 pound drums
CONSOLIDATED CHEMICAL INDUSTRIES INC.
ADDRESS INQUIRIES TO: 640 MELLIE ESPERSON BLDG., HOUSTON 2, TEXAS
OR 630 FIFTH AVENUE, NEW YORK 20, N. Y.

INHIBITORS, CORROSION (cont'd)

Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Alox Corp, Niagara Falls, N Y
Amer Chem Paint Co, Ambler, Pa
Doyle, James W, Corp, Detroit, Mich
Eagle Picher Co, Cincinnati, O
Ebony Paint Mfg Co, Kansas City, Mo
Elgin Softener Corp, Elgin, Ill
Enthone, Inc, New Haven, Conn
Feedwaters Inc, N Y
Flexoid Prods, Inc, Boston, Mass
Merta, L Carlton, Co, Chicago, Ill
Natl Aluminate Corp, Chicago, Ill
Neilson Chem Co, Detroit, Mich
Rodgers, Thos T, Chem Labs, Milwaukee, Wis
Smith, E W, Chem Co, Los Angeles, Calif
Superior Chem Wks, Louisville, Ky
Tretolite Co, St Louis, Mo
Wasco Eng Corp, N Y

HIBITITE

High-powered pickling inhibitor

General Information: HIBITITE: Reddish brown powder soluble in both concentrated sulfuric and muriatic acids.

1. Protects the metal by causing the acid to work on the scale and not on the metal.
2. Saves acid by making the acid work on the scale only.
3. Saves metal by preventing the acid from attacking it.
4. Promotes the production of clean, bright, high-quality steel.
5. Reduces acid spray and the corrosion and dangers caused by acid spray.
6. Reduces the possibility of embrittlement caused by hydrogen penetration.

For sample and full details, write: MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, St. Louis 4, Mo.

Hibitite: Reg. U.S. Pat. Off.

MONSANTO
CHEMICALS for PLASTICS

SERVING INDUSTRY . . . WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

INHIBITORS, FOAM

Products which are added in manufacturing operations to prevent the formation of foam, as for example in the paper field where foam results in "pin heads" in the finished paper.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500

INHIBITORS, FOAM (cont'd)

★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Hercules Powder Co, 978 Market St, Wilmington, Del
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Harrison 7-3541

INHIBITORS, GASOLINE

Complex compounds added to gasoline to prevent the formation of gum.

Amer Lecithin Co, Inc, 57-01 32 Av, Woodside, N Y — Astoria 4-4350
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Alox Corp, Niagara Falls, N Y

INHIBITORS, POLYMERIZATION

Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
★Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

2,5-ditertiary butyl hydroquinone

• Insoluble in water and aqueous caustic, this Eastman para dihydric phenol is an excellent polymerization inhibitor for vinyl acetate, styrene, and other vinyl-type resin monomers. Since it absorbs ultraviolet, it finds further use in such products as Neoprene latex. Available in drum lots.

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Co.)
KINGSPORT, TENNESSEE

EASTMAN INDUSTRIAL CHEMICALS

Sales Reps in principal cities—see ad in Catalog Section.

INK REMOVERS

Antara Prods, Gen Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760

Braden Sutphin Ink Co, Cleveland, O
Crowe Printing Ink Co, Phila, Pa
Hachik Bleach Co, Phila, Pa
Pannier Corp, Pittsburgh, Pa
Scriptex Prods Co, Phila, Pa
Superior Prods Co, Somerville, Mass

INKS, BAG

Inks used on jute or cotton bags which are to contain such commodities a slime, salt, fertilizer, flour, acid powders, fertilizer materials, etc.; must be highly resistant to alkalies and acids.

Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270

Bowers Printing Ink Co, Chicago, Ill
Braden Sutphin Ink Co, Cleveland, O
Carlson, John P, Inc, Bklyn, N Y
Crowe Printing Ink Co, Phila, Pa
Ink & Chem Co, Inc, N Y
Johnson, Charles Eneu, & Co, Phila, Pa
Okie, F G, Inc, Phila, Pa
Pannier Corp, Pittsburgh, Pa
Wilson, W D, Printing Ink Co, Ltd, Long Is City, N Y

INKS, BLOCK PRINTING

Used in making wood cuts, as in art work, for linoleum printing

Boston Printing Ink Co, Boston, Mass
Bowers Printing Ink Co, Chicago, Ill
Braden Sutphin Ink Co, Cleveland, O
Grumbacher, M, N Y
Wilson, W D, Printing Ink Co, Ltd, Long Is City, N Y

INKS, BURNISHING

Jared-Holt Co, Albany, N Y

INKS, CARTON

Specialized inks which must have a high degree of light fastness, resistance to paste, water glass (silicate of soda) and other adhesives, soap powders, soaps, etc. They should have a fair degree, at least, of resistance to acids and alkalies.

INKS, CARTON (cont'd)

Boston Printing Ink Co, Boston, Mass
Bowers Printing Ink Co, Chicago, Ill
Braden Sutphin Ink Co, Cleveland, O
Carlson, John P, Inc, Bklyn, N Y
Chicago Ink & Research Co, Mt Prospect, Ill
Crowe Printing Ink Co, Phila, Pa
Ink & Chem Co, Inc, N Y
Johnson, Charles Eneu, & Co, Phila, Pa
Okie, F G, Inc, Phila, Pa
Wilson, W D, Printing Ink Co, Ltd, Long Is City, N Y

INKS, CELLULOSE MARKING

Specialized inks used for printing on Cellophane, pyroxylin coatings, etc.

Chicago Ink & Research Co, Mt Prospect, Ill
Grumbacher, M, N Y
Union Chem Corp, Newark, N J
Wilson, W D, Printing Ink Co, Ltd, Long Is City, N Y

INKS, DRAWING

Amer Writing Ink Co, Inc, Boston, Mass
Diamond Ink & Adhesive Co, Milwaukee, Wis
Grumbacher, M, N Y
Higgins Ink Co, Inc, Bklyn, N Y

INKS, DUPLICATOR

Compounds formulated with basic dyes dissolved in a mixture of water, acid, alcohol and glycerol, etc., used to make several copies of a master script.

Amer Writing Ink Co, Inc, Boston, Mass
Capitol Printing Ink Co, Inc, Washington, D C
Chicago Ink & Research Co, Mt Prospect, Ill
Ink & Chem Co, Inc, N Y
Pomeroy, I, Co, Newark, N J

INKS, GLASS ETCHING

Special preparations, usually supplied in two separate bottles, portions from each are mixed just before use and in the chemical reaction hydrofluoric acid is formed which is the active etching agent.

Chicago Ink & Research Co, Mt Prospect, Ill
Pannier Corp, Pittsburgh, Pa

INKS, HOT WAX

Process inks used to print bottle caps for milk and cream and also drinking cups. Should have good light fastness and possess good resistance to hot paraffin, and moisture as well as to the chemical action of milk and cream.

International Wax Refg Corp, 4415 3 Av, Bklyn, N Y — South 8-1717

Bowers Printing Ink Co, Chicago, Ill
Carlson, John P, Inc, Bklyn, N Y
Crowe Printing Ink Co, Phila, Pa

INKS, INDELIBLE

Specially formulated inks, many of them patented which cannot be erased out mechanically nor dissolved out from the paper and find their principal use in the writing of checks and other important documents to prevent changes, etc. Many countries, several states have specifications for the formulation of indelible or permanent inks.

Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760

Amer Writing Ink Co, Inc, Boston, Mass
Applegate Chem Co, Chicago, Ill
Carlson, John P, Inc, Bklyn, N Y
Chicago Ink & Research Co, Mt Prospect, Ill
Levison & Blythe Mfg Co, St Louis, Mo
Payson's Indelible Ink Co, Northampton, Mass
Superior Prods Co, Somerville, Mass
Wilson, W D, Printing Ink Co, Ltd, Long Is City, N Y

INKS, MARKING

Natural or chemically prepared products, usually containing silver nitrate, which is reduced on the fibre to a black deposit; used as laundry marks, etc.

Amer Writing Ink Co, Inc, Boston, Mass
Applegate Chem Co, Chicago, Ill
Carlson, John P, Inc, Bklyn, N Y
Chicago Ink & Research Co, Mt Prospect, Ill
Grumbacher, M, N Y
Ink & Chem Co, Inc, N Y
Pannier Corp, Pittsburgh, Pa
Payson's Indelible Ink Co, Northampton, Mass
Superior Prods Co, Somerville, Mass
Wilson, W D, Printing Ink Co, Ltd, Long Is City, N Y

INKS, METAL STAMPING

Amer Writing Ink Co, Inc, Boston, Mass
Chicago Ink & Research Co, Mt Prospect, Ill
Johnson, Charles Eneu, & Co, Phila, Pa
Wilson, W D, Printing Ink Co, Ltd, Long Is City, N Y

INKS, METALLIC

Boston Printing Ink Co, Boston, Mass
Bowers Printing Ink Co, Chicago, Ill
Braden Sutphin Ink Co, Cleveland, O
Capitol Printing Ink Co, Inc, Washington, D C
Carlson, John P, Inc, Bklyn, N Y
Crowe Printing Ink Co, Phila, Pa
Ink & Chem Co, Inc, N Y
Johnson, Charles Eneu, & Co, Phila, Pa
Okie, F G, Inc, Phila, Pa
Wilson, W D, Printing Ink Co, Ltd, Long Is City, N Y

INKS, PARCHMENT

LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412

Boston Printing Ink Co, Boston, Mass
Bowers Printing Ink Co, Chicago, Ill
Capitol Printing Ink Co, Inc, Washington, D C
Crowe Printing Ink Co, Phila, Pa

INKS, POSTER AND SIGN

Boston Printing Ink Co, Boston, Mass
Bowers Printing Ink Co, Chicago, Ill
Braden Sutphin Ink Co, Cleveland, O
Capitol Printing Ink Co, Inc, Washington, D C
Carlson, John P, Inc, Bklyn, N Y
Ink & Chem Co, Inc, N Y
Okie, F G, Inc, Phila, Pa
Vogel Luminescence Corp, San Fran, Calif
Wilson, W D, Printing Ink Co, Ltd, Long Is City, N Y

INKS, PRINTING AND LITHOGRAPHING

The variety of surfaces upon which inks are printed—various types of paper, tin, cloth, Cellophane, Celluloid, etc., makes a wide variety of types necessary among which the more common are: 1. Newsprint inks which dry by absorption: 2. Book inks which dry by

INKS, PRINTING AND LITHOGRAPHING (cont'd)

oxidation for use on aised papers; 3. Lithographic inks, which consist chiefly of bodied linseed oil and pigment or dye. Newsprint inks usually consist of rosin dissolved in a cheap mineral oil, such as spindle oil or paraffin oil. This varnish is then used as a grinding liquid for the carbon black pigment. The rosin is generally dissolved in the oils by the aid of heat. Petroleum and petroleum pitches are sometimes used to reduce tack. Book inks usually contain rosin and other varnish gums, but very high grade inks of this type usually consist only of bodied linseed oil and special driers.

LaPlate, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412

Boston Printing Ink Co, Boston, Mass
Bowers Printing Ink Co, Chicago, Ill
Braden Sutphin Ink Co, Cleveland, O
Capitol Printing Ink Co, Inc, Washington, D C
Carlson, John P, Inc, Bklyn, N Y
Crowe Printing Ink Co, Phila, Pa
Ink & Chem Co, Inc, N Y
Okie, P G, Inc, Phila, Pa
Senefelder Co, Inc, N Y
Simmons Prods Co, Inc, N Y
Sun Chem Corp, Long Is City, N Y
Wilson, W D, Printing Ink Co, Ltd, Long Is City, N Y

INKS, ROTOGRAVURE

Inks specially formulated for use in the rotogravure method of printing. They should have light fastness, cleanliness of tone, and be alkali proof, etc.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222

Avondale Co, Northfield, Ill
Gotham Ink & Color Co, Long Is City, N Y
Ink & Chem Co, Inc, N Y
Union Chem Corp, Newark, N J

INKS, SILK SCREEN

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222

Carlson, John P, Inc, Bklyn, N Y

INKS, SOAP WRAPPER

Boston Printing Ink Co, Boston, Mass
Bowers Printing Ink Co, Chicago, Ill
Carlson, John P, Inc, Bklyn, N Y

INKS, STAMPING

Amer Writing Ink Co, Inc, Boston, Mass
Chicago Ink & Research Co, Mt Prospect, Ill
Diamond Ink & Adhesive Co, Milwaukee, Wis
Lerison & Blythe Mfg Co, St Louis, Mo
Pannier Corp, Pittsburgh, Pa
Pomeroy, I, Co, Newark, N J

INKS, STENCIL

Amer Writing Ink Co, Inc, Boston, Mass
Applegate Chem Co, Chicago, Ill
Chicago Ink & Research Co, Mt Prospect, Ill
Diamond Ink & Adhesive Co, Milwaukee, Wis
Pannier Corp, Pittsburgh, Pa

INKS, TYPEWRITER RIBBON

N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140

Capitol Printing Ink Co, Inc, Washington, D C

INSECT REPELLENTS

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0651
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Chapman Chem Co, Dermon Bldg, Memphis, Tenn — 37-8316
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Edcan Labs, 10-20 Pine St, S Norwalk, Conn — Norwalk 6-9005
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Powell, John, & Co Inc, 1 Park Av, N Y — Murray Hill 5-1770
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

Bostwick Labs Inc, Bridgeport, Conn
Cloroben Corp, Jersey City, N J
Kerns, L R, Co, Chicago, Ill
McCann Chem Co, Louisville, Ky
Phoenix Chem Co, Phoenix, Ariz

INSECTICIDE BASES

An insecticide is defined in the Insecticide Act of 1910 as "any substance or mixture of substances intended to be used for preventing, destroying, repelling or mitigating any insects which may infest vegetation, man or other animals or households or be present in any environment whatsoever." A few materials, such as sulfur dust, have both insecticidal and fungicidal value. Among the more common insecticides and fungicides are the arsenicals (Lead Arsenate, Calcium Arsenate, Paris Green, White Arsenic, Sodium Arsenite Solution); sulfur compounds (Calcium Monosulfide, Lime Sulfur, Sulfur Dust); oils and organic compounds (Kerosene, Creosote Oil, Mineral Oil Emulsions, Petroleum Oil, Naphthalene, Paradichlorbenzene); Pyrethrum, Nicotine Sulfate, Derris, Cube. More important fungicides are Copper Sulfate, Zinc Chloride, Sodium Fluoride. Other products employed in the insecticide and fungicide fields include: Zinc Arsenite, Magnesium Arsenite, Magnesium Arsenate, Arsenical Cattle Dip, Copper Carbonate, Cryolite, Ethyl Mercuric Chloride, Pine-Tar Oil, Coal Tar Distillates, Acid Hydrocyanic, Carbon Disulfide, Ethylene Dichloride, Ethylene, Oxide, Calcium Cyanide, Sulfur Dioxide, Fluosilicates, etc.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Attapulgus Clay Co, 210 W Washington Sq, Phila, Pa — Walnut 2-5720

ORCHARD BRAND
Insecticides & Fungicides

DDT INSECTICIDES
(See Separate Listing)

BENZENE HEXACHLORIDE (BHC)
General Chemical 3-5-40 Cotton Dust (Contains BHC, DDT & Sulfur)
BHC Spray & Dust Mixtures
BHC Dust Base Concentrates
BHC-Calcium Arsenate Concentrate
BHC Technical

NICOTINE MATERIALS
Nicotine Sulfate 40%
Nicotine Alkaloid

ROTENONE DUSTS
"100" Dust (1% Rotenone)
"75" Dust (.75% Rotenone)

OTHER ORGANIC INSECTICIDES
Chlorinated Camphene (Toxaphene) Spray and Dust Mixtures
Chlordane Spray & Dust Mixtures
Parathion Concentrates and Mixtures

ARSENICAL INSECTICIDES
Lead Arsenate "Astringent" and Standard
Calcium Arsenate
Paris Green

SULFUR SPRAY MATERIALS
Micro-Dritomic* Sulfur (Micro Particle)
Dritomic* Sulfur (Wettable Sulfur for Peaches)

COPPER SPRAYING & DUSTING MATERIALS
"340" Spraycop* (Neutral Copper Fungicide—Contains 34% Metallic Copper)
"530" Spraycop* (Neutral Copper Fungicide—Contains 53% Metallic Copper)
Bordeaux Mixture Powder
Copper-DDT Concentrates

ORGANIC FUNGICIDES
Ferbam (Ferric dimethyl-dithiocarbamate wettable powder)
Ziram (Zinc dimethyl-dithiocarbamate wettable powder)
Nabam (Disodium ethylene bis-dithiocarbamate liquid concentrate)

SPREADER-STICKER
Filmfast* (To make sprays cover better, go farther)

PRE-HARVEST SPRAYS & DUSTS
(To Stop Pre-Harvest Drop of Apples)
Stafast* Spray Powder

ORCHARD BRAND

* Reg. U. S. Pat. Off.

Offices in Principal Cities—See Directory ad.

GENERAL CHEMICAL DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.
Cable Address: "LYCURGUS" NEW YORK, N. Y.

INSECTICIDE BASES (cont'd)

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Dalton-Cooper Inc, 200 W 34 St, N Y — Longacre 4-2910
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Kolker Chem Wks Inc, 80 Lister Av, Newark, N J — Market 2-5458



Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Neuberg, Wm D, Co, Inc, 420 Lexington Av, N Y — Oregon 9-2550
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

★See ad in Catalog Section

INSECTICIDE BASES (cont'd)

Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
U S Gypsum Co, Industrial Div, 300 W Adams St, Chicago, Ill — State 2-6100
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Harrison 7-3541
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Beechem Labs, St Johns, Mich
Calif Spray-Chem Corp, Richmond, Calif
Miller Chem Co, Omaha, Nebr
Pennsylvania Refg Co, Cleveland, O
Phoenix Chem Co, Phoenix, Ariz
Simmons Prods Co, Inc, N Y

DDT
Solutions - Dusts - Emulsions

CHLORDANE
Solutions - Dusts - Emulsions

24D WEEDKILLERS
Ester and Salt Types

RIVERDALE CHEMICAL CO.
324 East 147th Street — Harvey, Illinois

INSECTICIDE BASES, SYNTHETIC

Products produced synthetically as contrasted with such natural raw materials as pyrethrum, derris, cube, rotenone, etc., used alone as the active principal or in conjunction with natural raw materials as the active ingredient in fly sprays, cattle sprays, etc.

Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Dow Chem Co, Midland, Mich — Midland 500
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Hercules Powder Co, 978 Market St, Wilmington, Del — Digby 4-1500
Industrial Raw Materials Corp, 52 Wall St, N Y — Market 2-5458
Kolker Chem Wks Inc, 80 Lister Av, Newark, N J — Main 4000
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Bowling Green 9-2240
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Lexington 2-4322
Pan Amer Refg Corp, 122 E 42 St, N Y — Riverdale 1880
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Lombard 3-9860
Rohm & Haas Co, Washington Sq, Phila, Pa — Nashville 5-8333
Tennessee Prods & Chem Corp, Nashville, Tenn — Murray Hill 2-6700
U S Industrial Chems Inc, 60 E 42 St, N Y — Harrison 7-3541
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Murray Hill 9-4920
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Laclede 2201
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo

Beechem Labs, St Johns, Mich

INSECTICIDE CONCENTRATES, SYNTHETIC

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Cyanamid Co, Agric Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Chapman Chem Co, Dermen Bldg, Memphis, Tenn — 37-8316
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800

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BASIC MANUFACTURERS AND FORMULATORS

Technical • Solutions
Emulsifiable Concentrates & Powders

CHEMICAL INSECTICIDE CORP.
57 13th ST. BROOKLYN 15, N. Y. SOuth 8-7141

INSECTICIDE CONCENTRATES, SYNTHETIC (cont'd)

Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Hercules Powder Co, 978 Market St, Wilmington, Del — Digby 4-1500
Industrial Raw Materials Corp, 52 Wall St, N Y — Lexington 2-7600
Johns-Manville, 22 E 40 St, N Y — Murray Hill 6-0661
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Market 2-5458
Kolker Chem Wks Inc, 80 Lister Av, Newark, N J — Plaza 8500
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Main 4000
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Bowling Green 9-2240
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Locust 7-1700
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Mayflower 1-2960
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Riverdale 1880
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Lombard 3-9860
Rohm & Haas Co, Washington Sq, Phila, Pa — Oregon 9-0200
★Stauffer Chem Co, 420 Lexington Av, N Y — Murray Hill 2-6700
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 9-4920
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Laclede 2201
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo

Beechem Labs, St Johns, Mich
Bruce, E L, Co, Memphis, Tenn
Calif Spray-Chem Corp, Richmond, Calif
Chemineal Co, Detroit, Mich
Harliand Prods Co, Grand Rapids, Mich
Industrial Chem Prods Co, Phila, Pa
McLaughlin Gormley King Co, Minneapolis, Minn
Phoenix Chem Co, Phoenix, Ariz
World Spray Co, Inc, Los Angeles, Calif

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WETTING AGENTS LIQUID, NON-IONIC . . . LIQUID, ANIONIC . . . POWDERED, ANIONIC

FOAMING AGENTS LIQUID, NON-IONIC . . . LIQUID, ANIONIC . . . POWDERED, ANIONIC

ANTARA® PRODUCTS

GENERAL ANILINE & FILM CORPORATION
444 MADISON AVENUE, NEW YORK 22, N. Y.

INSECTICIDES, FARM

Chemicals and mixtures compounded particularly for the control of chewing and sucking insects infesting farm crops.

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Amer Cyanamid Co, Agric Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Antara Prods, Gen'l Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Chapman Chem Co, Dermen Bldg, Memphis, Tenn — 37-8316
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1680
Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Dow Chem Co, Midland, Mich — Midland 500
Duff Chem Co, Inc, 342 Madison Av, N Y — Murray Hill 7-6502
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Elton Chems Inc, 3100 E 26 St, Los Angeles, Calif — Angelus 9-8183
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Kolker Chem Wks Inc, 80 Lister Av, Newark, N J — Market 2-5458
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8500
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000

★See ad in Catalog Section



All you need to remember...

NORDA MAKES GOOD SCENTS

If you have a product, or plan a product, let Norda help you make it better. Norda knows what *you* need in Insecticides . . . for a good many years, has made good scents pay off. Call on us often . . . call on us now . . . write today . . . right away . . . for free samples, new catalogue.

Norda ESSENTIAL OIL AND CHEMICAL COMPANY, INC.
601 West 26th Street, New York 1, N. Y.

CHICAGO LOS ANGELES ST. PAUL MONTREAL
TORONTO HAVANA MEXICO CITY
LONDON PARIS

Los Angeles Chemical Co.

Manufacturers of

Tacco BRAND

AGRICULTURAL INSECTICIDES AND FUNGICIDES
DUSTS and SPRAYS

CALCIUM ARSENATE — LEAD ARSENATE
COPPER OXYCHLORIDE — SODIUM ARSENITE

CERAMIC COLORS

Producers of

BLEACHING CLAYS — ABSORBANT CLAYS

Grinders of

GRAPHITES — SULPHUR

Distributors of

INDUSTRIAL CHEMICALS
DRY COLORS
REAGENT CHEMICALS — GLASSWARE
LABORATORY EQUIPMENT

LOS ANGELES CHEMICAL CO.

1960 SANTA FE AVENUE — LOS ANGELES 21, CALIF.
SAN DIEGO DIVISION
3709 IMPERIAL AVENUE — SAN DIEGO 2, CALIF.

ALKRON* (Parathion-technical)

An amazing new organic phosphate insecticide specially effective against spider mites, aphids and scale insects. Available as concentrate powder.

OTHER ESTON PRODUCTS: Refrigerants — Space Fumigants — Soil Fumigants — Insecticides — Low Pressure Aerosols.

*Trade Mark Registered

ESTON CHEMICALS

ESTON CHEMICALS, INC.

3100 E. 26th St., LOS ANGELES 23

INSECTICIDES, FARM (cont'd)

National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Powell, John, & Co Inc, 1 Park Av, N Y — Murray Hill 5-1770
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Virginia Smelting Co, W Norfolk, Va — Portsmouth 7-3441
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201

NIFOS-T

(Monsanto Tetraethyl Pyrophosphate, Technical)

Effective in insecticide formulations for the control of agricultural pests. Spray solutions and emulsions easily made.

Sold only for the manufacture of economic poisons.

For complete information write to

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
1700 South Second Street
St. Louis 4, Mo.

Nifos: Reg. U.S. Pat. Off.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY...WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

Agkem Inc, Quincy, Ill
Allied Raw Materials, N Y
Archem Corp, Crete, Nebr
Beechem Labs, St Johns, Mich
Bostwick Labs Inc, Bridgeport, Conn
Calif Spray-Chem Corp, Richmond, Calif
Chem Supply Co, Cleveland, O
Chipman Chem Co, Inc, Bound Brook, N J
Fresno Agricultural Chem Co, Fresno, Calif
McLaughlin Gormley King Co, Minneapolis, Minn
Miller Chem Co, Omaha, Nebr
Miller Prods Co, Portland, Ore
Monarch Chem Wks, Inc, Omaha, Nebr
Phoenix Chem Co, Phoenix, Ariz
Reamer-Hill Corp, Jacksonville, Ark
Rimco Trading Corp, N Y
Steele, Ben P, Co, N Y
Whitmoyer Labs, Inc, Myerstown, Pa
World Spray Co, Inc, Los Angeles, Calif
Zellers Labs, Reading, Pa

ORGANIC — INORGANIC

INSECTICIDES

PESTICIDES — FUNGICIDES

WEED KILLERS

Tetraethyl Pyrophosphate • Arsenates
Sodium Chlorate • DDT • Arsenic

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ESTABLISHED 1892

ELBERT & COMPANY, INC.

2 BROADWAY, NEW YORK 4, N.Y., DIGBY 8-2670

★See ad in Catalog Section

EMULSIFIERS
FOR USE IN

Agricultural Sprays
Pest Control, Home Garden and Household Use
Livestock Spraying and Dipping

Non-ionic emulsifiers, spreading and wetting agents especially for formulating with DDT, rotenone, toxaphene, BHC, chlordane, 2,4-D and other toxicants. Write for literature.

Industrial Chemicals Department
ATLAS
POWDER COMPANY
Wilmington 99, Delaware
Atlas Powder Company, Canada, Ltd., Brantford, Canada

NIRAN
Monsanto's Parathion

Insecticide having high activity against a wide variety of insects and mites. May be applied as a spray, dust, dust suspension or aerosol. Highly toxic to man and higher animals. Very low plant toxicity.

Description: Dark brown liquid; assay 96.5%; Sp. Gr. 1.26-1.27 at 25°/25° C.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
1700 South Second Street
St. Louis 4, Mo.
Niran: Reg. U.S. Pat. Off.

MONSANTO CHEMICALS—PLASTICS
SERVING INDUSTRY... WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

INSECTICIDES, GARDEN

Chemicals and mixtures compounded particularly for the control of insects infesting flowering plants and shrubs.

Amer Cyanamid Co, Agric Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Chapman Chem Co, Dermon Bldg, Memphis, Tenn — 37-8316
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Dow Chem Co, Midland, Mich — Midland 500

U.S.I. INSECTICIDE AND INSECTIFUGE MATERIAL

Insecticide Materials
CPR Concentrates
Piperonyl Butoxide
Piperonyl Cyclonene
*Pyronone Concentrates
Pyrethrum Products
Rotenone Products

Insectifuge Materials
*Indalone
Triple-Mix Repellents

*Registered U. S. Pat. Off.

U. S. INDUSTRIAL CHEMICALS, INC.
Baltimore; Boston; Buffalo; Chicago; Cincinnati; Cleveland; Denver; Detroit; Kansas City, Mo.; Los Angeles; Louisville; New Orleans; New York; Philadelphia; Pittsburgh; St. Louis; Minneapolis; San Francisco

Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Kolker Chem Wks Inc, 80 Lister Av, Newark, N J — Market 2-5458
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Powell, John, & Co Inc, 1 Park Av, N Y — Murray Hill 5-1770
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1980
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Virginia Smelting Co, W Norfolk, Va — Portsmouth 7-3441

POWCO CHEMICALS
"KILLING POWER - that's the thing!"
POWCO BRAND
Pyrethrum and Rotenone Products for the manufacture of Household and Agricultural Insecticides—Scientifically Formulated—Chemically Standardized
JOHN POWELL & CO. INC.
ONE PARK AVE, NEW YORK 16, N.Y.

INSECTICIDES, GARDEN (cont'd)

Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201
Agkem Inc, Quincy, Ill
An-Fo Mfg Co, Oakland, Calif
Archem Corp, Crete, Nebr
Buckeye Chem & Specialty Co, N Y
Fresno Agricultural Chem Co, Fresno, Calif
McLaughlin Gormley King Co, Minneapolis, Minn
Miller Prods Co, Portland, Ore
Permalawn Prods Co, Evanston, Ill
Phoenix Chem Co, Phoenix, Ariz
Reasor-Hill Corp, Jacksonville, Ark
World Spray Co, Inc, Los Angeles, Calif

DEPENDABLE PRODUCTS SINCE 1871
SPRAY and INSECTICIDE PERFUMES and **ODOR NEUTRALIZERS**
WRITE US FOR CATALOG
FRITZSCHE Brothers, Inc.
Est. 1871
PORT AUTHORITY BUILDING, 76 NINTH AVENUE, NEW YORK 11, N. Y.
BRANCH OFFICES and *STOCKS: *Atlanta, Ga., Boston, Mass., *Chicago, Ill., Cincinnati, O., Cleveland, O., *Los Angeles, Calif., Philadelphia, Pa., San Francisco, Calif., *St. Louis, Mo., *Toronto, Canada and *Mexico, D. F. FACTORY: Clifton, N. J.

INSECTICIDES, HOUSEHOLD

Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Dodwell & Co, Ltd, 120 Wall St, N Y — Hanover 2-1580
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kolker Chem Wks Inc, 80 Lister Av, Newark, N J — Market 2-5458

★See ad in Catalog Section

INSECTICIDES, HOUSEHOLD (cont'd)

National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Virginia Smelting Co, W Norfolk, Va — Portsmouth 7-3441
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201

Agkem Inc, Quincy, Ill
An-Fo Mfg Co, Oakland, Calif
Bostwick Labs Inc, Bridgeport, Conn
Buckeye Chem & Specialty Co, N Y
Carpenter, W D, Co, Inc, Syracuse, N Y
Chem Supply Co, Cleveland, O
Elkay Prods Co, N Y
Fresno Agricultural Chem Co, Fresno, Calif
Hockwald Chem Co, San Fran, Calif
Monarch Chem Wks, Inc, Omaha, Nebr
Phoenix Chem Co, Phoenix, Ariz
Reasor-Hill Corp, Jacksonville, Ark
Solvit Chem Co, Inc, Madison, Wis
Uncle Sam Chem Co, Inc, N Y
Union Oil Co of Calif, Los Angeles, Calif
Windsor Wax Co, Inc, Hoboken, N J
World Spray Co, Inc, Los Angeles, Calif

INSECTICIDES, ORCHARD

Chemicals and mixtures compounded particularly for the control of insects infesting fruit trees.

Amer Cyanamid Co, Agric Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Kolker Chem Wks Inc, 80 Lister Av, Newark, N J — Market 2-5458
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Powell, John, & Co Inc, 1 Park Av, N Y — Murray Hill 5-1770
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Virginia Smelting Co, W Norfolk, Va — Portsmouth 7-3441
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920

Agkem Inc, Quincy, Ill
Chipman Chem Co, Inc, Bound Brook, N J
Fresno Agricultural Chem Co, Fresno, Calif
Permalawn Prods Co, Evanston, Ill
Reasor-Hill Corp, Jacksonville, Ark
Robins, G S, & Co, St Louis, Mo
Western Michigan Chem Co, Muskegon, Mich

INSECTIFUGES

National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

INSULATING COMPOUNDS, ELECTRICAL

Products which possess the characteristic of not passing electrical current (or very little) when subjected to voltage stress. More commonly used are rubber, synthetic plastics, various forms of porcelain, etc.

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243
★Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Borurski, Jr, E F, N Y
Goodrich, B F, Chem Co, Cleveland, O
Hi-Test Chem Corp, Bklyn, N Y
Keasbey & Mattison Co, Ambler, Pa
Taylor Fibre Co, Norristown, Pa
Thompson, H, Co, Los Angeles, Calif

INSULATION MATERIALS

Products whose physical properties are such that they possess specially low thermal conductivity. No one or two types of material will serve under the wide variety of conditions insulation is called upon to meet. The temperature may be far below zero, or above 3000°F. The surface to be insulated may be a pipe, a tank, or a furnace floor, wall, roof, or door. It may be regular in contour, or broken up with projecting fittings or accessories. The insulation may be indoors or outdoors, may be subjected to abuse, or to severe vibration or mechanical abrasion. Four mineral products—asbestos, magnesium carbonate, diatomaceous earth and rock or mineral wool and also waste products of vegetable origin are among the principal raw materials out of which insulation materials are produced. Insulation is commonly supplied in the form of sectional pipe covering; insulating sheets, blocks, bricks, and blankets; insulating cements, fillers, and finishes; insulating papers and felts; as well as lightweight aggregate used with Portland cement for making insulating concrete. Materials are available for use throughout the entire range of temperatures used in industrial processes, from the extreme sub-zero temperatures used in the treatment of oils, chemicals, etc., to extremely high temperatures employed in metallurgy, etc. See also Fillers, Insulating.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Dow Chem Co, Midland, Mich — Midland 500

SANTOCEL

for thermal insulation

Properties: Santocel is silica aerogel, the most efficient insulating material available. Apparent density less than 5 lbs. per cu. ft. K factor, 0.1 at —100° F. mean temperature.

Typical Analysis: SiO_2, 94%; sodium sulfate, 3%; Fe_2O_3 and Al_2O_3, 1.0%; volatile, 2.0%.

MONSANTO CHEMICAL COMPANY
Boston 49, Mass.

Santocel: Reg. U.S. Pat. Off.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY... WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

INSULATION MATERIALS (cont'd)

Du Pont de Nemours, E I, & Co (Inc). (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Dicalite Div, Los Angeles, Calif
Eagle Picher Co, Cincinnati, O
Keasbey & Mattison Co, Ambler, Pa
Panelyte Div, N Y
Richardson Co, Melrose Park, Ill
Ruberoid Co, N Y
Sealdling Fibre Co, Inc, Tonawanda, N Y
Standard Asbestos Mfg Co, Chicago, Ill
Thompson, H, Co, Los Angeles, Calif

JAPANS

Black coatings employed on metal and hardened usually by heat. Bituminous materials are the chief constituents of Japan finishes, together with resins, paint oils, and solvents, such as toluol and solvent naphtha. Finishes of this type are usually applied by dipping metal articles into the Japan and then baking at temperatures of approximately 300° F.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Strosen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

JOINTING COMPOUNDS

Preparations to make tight joints, eliminate leaks; used widely in industry, including gas and high pressure lines, automatic sprinkler systems, air lines, plumbing work, and general maintenance of pipe lines. Used also for coating gaskets, nuts, boiler tube caps, manhole plates of boilers and condensers, doors of gas retorts, etc. See also Sewer Pipe Jointing Compounds.

Atlas Mineral Prods Co, Mertztown, Pa — Topton 37
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Electro Chem Supply & Eng Co, Emmaus, Pa
Lake Chem Co, Chicago, Ill
Rector Well Equip Co, Inc, Houston, Texas
Smooth-On Mfg Co, Jersey City, N J

KALSOMINES

Coatings formulated with sodium carbonate, linseed oil, glue, whiting, etc. Colors are added when desired. See also Paints, Cold Water.

Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Alabastine Paint Prods, Chicago, Ill

LACQUER BASES

In formulating lacquers, certain stock or base lacquers serve as the starting point from which special lacquers are produced. For example, a 25% solution of nitrocellulose may be termed a base solution. As is, it is of no value as a lacquer but when color, resins, etc., are added colored lacquers for various uses are produced.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000
Hercules Powder Co, 978 Market St, Wilmington, Del
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Nitrogen Prods, Inc, Benzol Div, 926 Harrison Av, Kearny, N J — Bergen 4-5478
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060
★Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

★See ad in Catalog Section

LACQUER BASES (cont'd)

Advance Paint Co, Indianapolis, Ind
Avondale Co, Northfield, Ill
Chem Prods Corp, E Providence, R I
Claremont Pigment Dispersion Corp, Bklyn, N Y
Maas & Waldstein Co, Newark, N J
Osborn, C J, Co, N Y
Rafft & Swanson, Inc, Chelsea, Mass
Stille-Young Corp, Chicago, Ill
Union Chem Corp, Newark, N J

LACQUERS, ALCOHOL RESISTANT

Lacquer coatings so formulated that they are unaffected by alcohol, used on articles such as beer or cocktail trays. Ordinary lacquers which are not formulated for alcohol resistance would soften, discolor and often come off when alcohol or diluted alcohol came in contact with them.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Advance Paint Co, Indianapolis, Ind
Alabastine Paint Prods, Chicago, Ill
Chem Prods Corp, E Providence, R I
Dolan, V J, & Co, Inc, Chicago, Ill
Grand Rapids Wood Finishing Co, Grand Rapids, Mich
Hague, Alfred, & Co, Inc, Bklyn, N Y
Maas & Waldstein Co, Newark, N J
Midland Industrial Finishes Co, Waukegan, Ill
New England Lacquer Co, E Providence, R I
Rafft & Swanson, Inc, Chelsea, Mass
Stille-Young Corp, Chicago, Ill
Wolverine Finishes Corp, Grand Rapids, Mich

LACQUERS, AUTOMOTIVE

These lacquers are applied over primer and surfacer coats to give a lustrous and colorful finish. They not only produce a pleasing effect but have excellent durability to the weather, mud from the road, and soap and polishes.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Arco Co, Cleveland, O
Sahlin Color & Chem Co, Camden, N J
United Lacquer Mfg Corp, Linden, N J
Western States Lacquer Co, Los Angeles, Calif
Wolverine Finishes Corp, Grand Rapids, Mich

LACQUERS, BRUSHING

Lacquers formulated to be applied with a brush: must "flow" so smoothly and evenly that the brush marks are not discernible when dry, also care that second coats will not "lift" the first through action of the solvents employed. These objectives are achieved, first, by using a great excess (usually three to one) of gum over cotton; second, solvents and diluents are so adjusted that the gum is not readily soluble in the mixture with the idea that the dry film will be resistant to the brush abrasion when additional coats are applied; third, the lacquer is formulated with as much pigment as possible; fourth, the solvents and diluents are carefully chosen so that the mixture is non-blushing.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060
New England Lacquer Co, E Providence, R I
Ruehl Paint Co, Cincinnati, O
Sahlin Color & Chem Co, Camden, N J

LACQUERS, CAN

Clear lacquers formulated to provide a protective coating to tinplate used in manufacturing the so-called "tin-can" containers.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Varnitos Co, Burbank, Calif

LACQUERS, CELLULOSE BASE

Lacquers formulated with cellulose acetate, etc., as distinguished from lacquers prepared with nitrocellulose bases, and so relatively non-inflammable.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060
Amer Prods Mfg Co, New Orleans, La
Egyptian Lacquer Mfg Co, Newark, N J
Kopec Chem Corp, Milwaukee, Wis
Maas & Waldstein Co, Newark, N J

LACQUERS, CLEAR

A lacquer which has no colored pigment or dye incorporated in it is termed a clear (transparent) lacquer. The dry film of lacquer, therefore, is transparent allowing the surface underneath to show through. A typical example is a clear metal lacquer.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060
Chem Prods Corp, E Providence, R I
Dolan, V J, & Co, Inc, Chicago, Ill
Industrial Chem Co, Berkeley, Calif
Keiner Co, Newark, N J
Kopec Chem Corp, Milwaukee, Wis
Maas & Waldstein Co, Newark, N J
Midland Industrial Finishes Co, Waukegan, Ill
New England Lacquer Co, E Providence, R I
Nonweiler, A F, & Co, Oshkosh, Wis
Reliance Varnish Co, Chicago, Ill
Ruehl Paint Co, Cincinnati, O
Sahlin Color & Chem Co, Camden, N J
Simonds Labs Inc, Long Is City, N Y
Toch Bros Inc, Staten Is, N Y
United Lacquer Mfg Corp, Linden, N J
Wolverine Finishes Corp, Grand Rapids, Mich

LACQUERS, EMULSIFIED

Lacquer emulsions consist of extremely viscous, dough-like lacquer base dispersed in a relatively small percentage of water; plus a very high solids content (film forming) and it also permits the use of nitrocellulose of much higher viscosity. Find special application in coating porous materials, also in coating paper.

Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Kopec Chem Corp, Milwaukee, Wis
Rafft & Swanson, Inc, Chelsea, Mass

LACQUERS, FISHLINE

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Chem Prods Corp, E Providence, R I

LACQUERS, HEAT RESISTING

Lacquers especially formulated to resist heat usually do not contain nitrocellulose. Often they are made with certain types of synthetic resins which withstand temperatures up to 600° F. They are used on parts of stoves, heaters, and similar articles. One special type is used on ash trays and withstands the heat of lighted cigarettes and cigars.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Maas & Waldstein Co, Newark, N J
Midland Industrial Finishes Co, Waukegan, Ill

LACQUERS, LEATHER

These are lacquers applied to leather to produce color effects or to emphasize and preserve the original beauty of the leather. These lacquers must be flexible and soft as the leather to which they are applied must not lose its "feel."

Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060
Avondale Co, Northfield, Ill
Dolan, V J, & Co, Inc, Chicago, Ill
Grand Rapids Wood Finishing Co, Grand Rapids, Mich
Keiner Co, Newark, N J
Kopec Chem Corp, Milwaukee, Wis
Natl Chem & Plastics Co, Baltimore, Md
Pyroxylin Prods, Inc, Chicago, Ill
Safran Chem & Supply Co, Lynn, Mass
Wolverine Finishes Corp, Grand Rapids, Mich

LACQUERS, LINOLEUM

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060
Armstrong Paint & Varnish Wks, Chicago, Ill
Avondale Co, Northfield, Ill
Natl Chem & Plastics Co, Baltimore, Md
Rafft & Swanson, Inc, Chelsea, Mass

LACQUERS, METAL

Clear lacquers are used to prevent tarnishing, and to give a protective and decorative coat over metals. Pigmented lacquers of relatively low solid content are employed for coating metal surfaces since the metal surface is generally smooth and a thin film is therefore entirely satisfactory. The question of proper adherence is important in lacquers for metal. See also Lacquers, Clear.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171

★See ad in Catalog Section

LACQUERS, METAL (cont'd)

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060

Arco Co, Cleveland, O
Chem Prods Corp, E Providence, R I
Industrial Chem Co, Berkeley, Calif
Kopec Chem Corp, Milwaukee, Wis
Maas & Waldstein Co, Newark, N J
Natl Chem & Plastics Co, Baltimore, Md
New England Lacquer Co, E Providence, R I
Raffi & Swanson, Inc, Chelsea, Mass
United Lacquer Mfg Corp, Linden, N J

LACQUERS, PAPER

These lacquers may be divided into several classes: first, the paper lacquers for decorative purposes, to impart gloss or color; second, lacquers which are used to produce certain definite requirements, such as waterproofness, moistureproofness, resistance to grease, and many other special needs.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060

Chem Prods Corp, E Providence, R I
Grumbacher, M, N Y
Midland Industrial Finishes Co, Waukegan, Ill
Natl Chem & Plastics Co, Baltimore, Md
New England Lacquer Co, E Providence, R I
Pyroxylin Prods, Inc, Chicago, Ill
Raffi & Swanson, Inc, Chelsea, Mass

LACQUERS, PATENT LEATHER

Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Chem Prods Corp, E Providence, R I

LACQUERS, REFRIGERATOR

Usually a white lacquer used on refrigerators to imitate a porcelain finish. Requirements are very exacting, for in addition to the usual requirements for a good finish, it must be odorless, not affected by greases, butter and similar materials which affect many lacquers.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Arco Co, Cleveland, O

LACQUERS, RESIN BASE

Lacquer in the modern sense is a coating containing nitrocellulose as the basic ingredient. A resin base lacquer is one where a resin is the basic ingredient instead of nitrocellulose.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Amer Prods Mfg Co, New Orleans, La
Carboline Co, St Louis, Mo
Egyptian Lacquer Mfg Co, Newark, N J
Kopec Chem Corp, Milwaukee, Wis
Marblette Corp, Long Is City, N Y
Nonweiler, A P, & Co, Oshkosh, Wis

LACQUERS, RUBBER

Specialized products in which necessary modifications of flexibility and adhesion are considered in the formulation, particularly in the choice of plasticizer for the lacquer, the method of cure of the rubber, the accelerators and anti-oxidants employed, etc. Generally there are two types of lacquer finishes for rubber; the continuous or after vulcanization; the discontinuous film lacquers, confined to pigmented lacquers and designed to be used where an exceedingly dry film variety, which includes all clear lacquers, applied either before surface is preferable. Lacquers of this latter type are usually applied before vulcanization and provide a film which is cracked so finely that the cracks can hardly be noticed. Such lacquers must withstand the heat of vulcanization without breaking down.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060

Amer Prods Mfg Co, New Orleans, La
Chem Prods Corp, E Providence, R I
Hague, Alfred, & Co, Inc, Bklyn, N Y
Natl Chem & Plastics Co, Baltimore, Md
New England Lacquer Co, E Providence, R I
Raffi & Swanson, Inc, Chelsea, Mass
Union Chem Corp, Newark, N J

LACQUERS, SPRAYING

Lacquers so formulated that they are sufficiently thin to be applied by a spray gun.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060

Arco Co, Cleveland, O
Avondale Co, Northfield, Ill
Chem Prods Corp, E Providence, R I
Dolan, V J, & Co, Inc, Chicago, Ill
Industrial Chem Co, Berkeley, Calif
Lowe Bros Co, Dayton, O
Natl Chem & Plastics Co, Baltimore, Md
New England Lacquer Co, E Providence, R I
Pruett-Schaeffer Chem Co, Pittsburgh, Pa
Sahlin Color & Chem Co, Camden, N J
Union Chem Corp, Newark, N J
Wolverine Finishes Corp, Grand Rapids, Mich

LACQUERS, TEXTILE

Specially formulated lacquers which must have the following qualifications: Must print; the print must stay raised; not stick in the stencil; not penetrate too deeply into the fabric; dry by the time the fabric reaches the end of the festoon; have adhesion; have flexibility.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060

Cabell Chem Co, Huntington, W Va
Chem Prods Corp, E Providence, R I
New England Lacquer Co, E Providence, R I
Raffi & Swanson, Inc, Chelsea, Mass
Union Chem Corp, Newark, N J

LACQUERS, TUMBLING

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Derere Co, Racine, Wis
New England Lacquer Co, E Providence, R I
Union Chem Corp, Newark, N J

LACQUERS, VEILING

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060

Derere Co, Racine, Wis

LACQUERS, WOOD

Clear or pigmented or colored lacquers of relatively high residual solid content to fill the roughness of the wood (fill the pores) and provide a smooth finish. They may produce a high lustrous finish or a dull, rich rubbed appearance.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Griffiths, K F, & Co, Inc, 280 Madison Av, N Y — Murray Hill 3-8350
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060

Derere Co, Racine, Wis
Dolan, V J, & Co, Inc, Chicago, Ill
Egyptian Lacquer Mfg Co, Newark, N J
Grand Rapids Wood Finishing Co, Grand Rapids, Mich
Industrial Chem Co, Berkeley, Calif
Maas & Waldstein Co, Newark, N J
Midland Industrial Finishes Co, Waukegan, Ill
New England Lacquer Co, E Providence, R I
Raffi & Swanson, Inc, Chelsea, Mass
Stille-Young Corp, Chicago, Ill
Union Chem Corp, Newark, N J
United Lacquer Mfg Corp, Linden, N J

LACQUERS, WRINKLE

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171

Southern Lacquer Co.
BALTIMORE 31, MD.
Manufacturers of
LACQUER
For
Wood, Rubber, Metal, Paper,
Sizings for Hats, Leather, Textiles
CONFIDENCE BRAND

★See ad in Catalog Section

LACQUERS, WRINKLE (cont'd)

Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Mass & Waldstein Co, Newark, N J

Pacific Plastics & Chem Co, Redwood City, Calif

LAPPING COMPOUNDS

Polishing powders, pastes, or heavy liquids used in the cutting and polishing of metals, etc.

Carborundum Co, Niagara Falls, N Y
Harrison & Co, Inc, Haverhill, Mass

Linde Air Prods Co, N Y
Nu Steel Co, Chicago, Ill

LARVA KILLING COMPOUNDS

Preparations employed largely for killing the larvae of mosquitoes. Usually of the coal-tar emulsifiable oil-type. Should not be affected by either rain or wind-fall; should mix completely with the stagnant water, penetrating to the bottom to destroy larvae (wigglers). Should be non-poisonous to live stock. Special types are available which will readily mix with salt, or brackish, water.

Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267

Bostwick Labs Inc, Bridgeport, Conn

Elkay Prods Co, N Y

LATEX, LIQUID

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Dow Chem Co, Midland, Mich — Midland 500
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Stein, Hall & Co, Inc, 285 Madison Av, N Y — Murray Hill 9-0800

Adhesive Prods Corp, N Y
Angier Prods, Inc, Cambridge, Mass
Arabol Mfg Co, N Y
General Latex & Chem Corp, Cambridge, Mass
Goodrich, B F, Chem Co, Cleveland, O
Montgomery Bros Inc, Phila, Pa
Polymer Chem Co, Cincinnati, O
Rubba Inc, N Y
Safran Chem & Supply Co, Lynn, Mass
Siomons Latu Inc, Long Is City, N Y
Standard Paste & Glue Co, Inc, Chicago, Ill

LEATHER DOPE BASES

Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000
Hercules Powder Co, 978 Market St, Wilmington, Del
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371

Amer Lignite Prods Co, Iona, Calif

Kepec Chem Corp, Milwaukee, Wis

LEVELING AGENTS, PAPER

Preparations for eliminating foam in the manufacturing of paper which causes pinheads in the finished sheet.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hercules Powder Co, 978 Market St, Wilmington, Del
Kali Mfg Co, 427 Meyer St, Phila, Pa — Regent 9-2370
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910

Continental Chem Co, Passaic, N J

PAPER MAKING SPECIALTIES

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Wax Sizes to Meet Specific Conditions

Sulfated Oils • Emulsified Resins
Insoluble Metallic Soap Dispersions
Wax Emulsions & Emulsifiers • Plasticizers
Rewetting Agents • Coating Compounds
Sheet Formation Aids • Foam Killers

Special Paper Coatings & Sizes

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NOPCO CHEMICAL CO.
Logan & Davis Sts., Harrison, N. J.

LEVELING AGENTS, TEXTILE

Products added to the dye bath to give evenness and greater penetration into the fabric, thereby improving the appearance and fastness of the finished textile.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Kali Mfg Co, 427 Meyer St, Phila, Pa — Regent 9-2370
Marathon Corp, Chem Div, Rothschild, Wis
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Laurel Soap Mfg Co, Phila, Pa
Leatex Chem Co, Phila, Pa

Sandoz Chem Wks, Inc, N Y
Seydel-Woolley & Co, Atlanta, Ga

LIME SULFUR

One of the best summer fungicides and insecticides for fruit trees: of special value for control of scale; frequently used in connection with other insecticides for the simultaneous control of chewing and sucking insects as well as certain fungus diseases; marketed both as a solution (33° Be.), or as a dry powder.

Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473

Palmyra Lime Prods Co, Clarksville, Tenn

LUBRICANTS

★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Elbert & Co, Inc, 2 Bway, N Y — Digby 4-2670
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600

Alox Corp, Niagara Falls, N Y
Amer Grease Stick Co, Muskegon, Mich
Kenn, L R, Co, Chicago, Ill
N Y & N J Lubricant Co, N Y
Oil States Petroleum Co, Inc, N Y
Oil-Kraft Inc, Cincinnati, O
Phoenix Oil Co, Cleveland, O
Union Oil Co of Calif, Los Angeles, Calif
Warren Refg & Chem Co, Cleveland, O

LUBRICANTS, CUTTING

Proprietary preparations used to cool high speed tools, in automatic pipe-threading machines, etc. See also Oils, Cutting (Soluble), Cutting Compounds, Oils, Cutting (Semi-Soluble).

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Elbert & Co, Inc, 2 Bway, N Y — Digby 4-2670
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Marsan-Ruth-Jerome Co, 327 LaSalle St, Chicago, Ill — Harrison 7-1760
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146

Alox Corp, Niagara Falls, N Y

Wayne Soap Co, Detroit, Mich

LUBRICANTS, EXTREME PRESSURE

Products used as the lubricating medium in free-wheeling, synchromesh and hypoid worm gears in the automotive field; complicated metal compounds skillfully compounded with greases, should have the following characteristics: freedom from separation, high film strength, low viscosity.

Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726

Ironsides Co, Columbus, O
N Y & N J Lubricant Co, N Y

Oil-Kraft Inc, Cincinnati, O
White & Bagley Co, Worcester, Mass

LUBRICANTS, GEAR

Preparations used on gears and pinions forming a cushion which silences, reduces friction to a minimum, and protects against dust, dirt and other foreign matter.

Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700

★See ad in Catalog Section

LUBRICANTS, GEAR (cont'd)

Alox Corp, Niagara Falls, N Y
Berry Asphalt Co, Magnolia, Ark
Ironsides Co, Columbus, O
Metalead Prods Corp, San Fran, Calif
N Y & N J Lubricant Co, N Y
Oil-Kraft Inc, Cincinnati, O
Warren Refg & Chem Co, Cleveland, O

LUBRICANTS, GRAPHITE

The well-known beneficial properties of graphite are utilized in the formulation of a wide variety of lubricants, very often permanently suspended in oil by means of a stabilizing agent such as one of the metallic soaps.

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
National Carbon Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J Bigelow 3-0700
Acheson Colloids Corp, Port Huron, Mich
Amer Grease Stick Co, Muskegon, Mich
Asbury Graphite Mills Inc, Asbury, N J
Impoil Co, Inc, Jersey City, N J
N Y & N J Lubricant Co, N Y
Superior Flake Graphite Co, Chicago, Ill

LUBRICANTS, GRINDING

Preparations used in grinding operations to aid in prolonging the life of grinding wheels, increase speed of cutting, and impart a finer finish to the work.

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

LUBRICANTS, MOLD

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Amer Lignite Prods Co, Ione, Calif
Safran Chem & Supply Co, Lynn, Mass

LUBRICANTS, PLASTIC MOLD

Special lubricating mediums used on the steel molds or dies used in the plastics field to facilitate the removal of the finished product without injury.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Dow Chem Co, Midland, Mich — Midland 500
Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Acheson Colloids Corp, Port Huron, Mich

LUBRICANTS, RUBBER

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
Acheson Colloids Corp, Port Huron, Mich
Amer Grease Stick Co, Muskegon, Mich
Breen, Frank J, Chicago, Ill
Murphy's Oil Soap Co, Cleveland, O
Phoenix Oil Co, Cleveland, O
Ransom, L E, Co, N Y

mold lubricants

• RUBBER-GLO •

The C. P. Hall *Co.*

CHEMICAL MANUFACTURERS

Akron • Los Angeles • Chicago

LUBRICANTS, RUBBER MOLD

Compounds prepared to effect the easy removing of rubber articles from molds.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Antara Prods, Gen Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540

LUBRICANTS, RUBBER MOLD (cont'd)

★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Acheson Colloids Corp, Port Huron, Mich
Adhesive Prods Corp, N Y
Amer Lignite Prods Co, Ione, Calif
Crystal Soap & Chem Co, Inc, Phila, Pa
Murphy's Oil Soap Co, Cleveland, O

LUMBER DIP COMPOUNDS

Preparations for treating lumber to prevent growth of fungus, particularly blue stain.

Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y — Bowling Green 9-7600
Chemical Co, Detroit, Mich

MEAT CURING COMPOUNDS

Preparations which foster the development of a rich, red color; an attractive flavor, and inhibit spoilage.

Davies Nitrate Co Inc, 118 Liberty St, N Y — Rector 2-6095
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810

MERCURIAL OINTMENT

Contains finely divided mercury in wool fat—petrolatum base. Uses—Parasiticide, antiseptic.

Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

METAL STAMPING COMPOUNDS

Preparations used to protect and lubricate in all types of metal stamping operations.

Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Amalgamated Chem Corp, Phila, Pa
Doyle, James W, Corp, Detroit, Mich
Kerns, L R, Co, Chicago, Ill
Macco Prods Co, Chicago, Ill
Murphy's Oil Soap Co, Cleveland, O
Phoenix Oil Co, Cleveland, O
Wayne Soap Co, Detroit, Mich

MILDEW PREVENTIVES, TEXTILE

Specially formulated compounds containing both inorganic and organic inhibitors which prevent the growth of spores and of particular value on shower curtains, etc., where the material is subjected to heat, dampness, etc.

Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Cuprinol Div, Darworth, Inc, Simsbury, Conn — Simsbury 42
Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-3466
Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Stieh, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265
Sterwin Chems, Inc, 1450 Bway, N Y
Stresen-Reuter, Fred'k A, Inc, 2115 Medill Av, Chicago, Ill — Humboldt 1532

★See ad in Catalog Section

give your fabrics better protection from mildew and rot with **G-4**

[*Dihydroxy Dichloro Diphenyl Methane*]

G-4 is the effective mildew and rot-proofing compound...highly fungicidal, germicidal, antiseptic...non-toxic and non-irritating...economical... stable...does not affect fabrics adversely in color or weight.

SINDAR *Corporation*

Industrial Aromatics and Chemicals

330 West 42nd Street, New York 18, N.Y.

Branches: Philadelphia • Boston • Cincinnati • Detroit
Chicago • Seattle • Los Angeles • Montreal • Toronto

MILDEW PREVENTIVES, TEXTILE (cont'd)

Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J	Sherwood 2-1726
Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333
Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6264

Cidex Corp, Jersey City, N J
Colloids Inc, Newark, N J
Lever, C, Co, Inc, Phila, Pa
Montgomery Bros Inc, Phila, Pa
Price Fire & Water Proofing Co, Poughkeepsie, N Y

MOLD PREVENTIVES

Compounds which prevent mold and fermentation in foods, cosmetics, pharmaceuticals, etc. See Preservatives, Food for suppliers.

Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Angus, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
Bark, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Cuprinol Div, Darworth, Inc, Simsbury, Conn	Simsbury 42
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Lamex Chem Corp, 25 Bway, N Y	Digby 4-4543
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo	Central 8980
Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J	Hawthorne 7-6000
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2240
Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y	Niagara Falls 2-207
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Sindar Corp, 330 W 42 St, N Y	Longacre 4-8750
Stresen-Reuter, Frad'k A, Inc, 2113 Medill Av, Chicago, Ill	Humboldt 1552
Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333
Zonhar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

Archem Corp, Crete, Nebr
Cleroben Corp, Jersey City, N J

MOLDING POWDERS, PLASTIC

Synthetic resins of various chemical composition, thermo-setting by nature, which set permanently under heat and pressure in hardened steel molds to form various three-dimensional shapes. Supplied in black and also in wide variety of colors. Used in making thermometers, barometers, office-equipment cases, stove fittings, utensil handles, clock and radio cases, telephones, microphones, cameras, scales, trays, lamp-bases, display stands, containers, caps, novelties, ignition parts, wall plates, switches, automotive parts, bobbins, spools, etc.

Amer Cyanamid Co, Plastics & Resins Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y	Murray Hill 3-3201

MOLDING POWDERS, PLASTIC (cont'd)

Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y	Tonawanda 1560
Hercules Powder Co, 978 Market St, Wilmington, Del	
★Monsanto Chem Co, Plastics Div, Springfield, Mass	Springfield 8371
Peters Chem Mfg Co, 3623 Lake St, Melrose Park, Ill	Melrose Park 643
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Shawinigan Prods Corp, 350 5 Av, N Y	Chickering 4-1243
★Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957

Amer Molding Powder & Chem Corp, Bklyn, N Y
Bamberger, A, Corp, Bklyn, N Y
Borden Co, N Y
Borneki, Jr, E F, N Y
Rinco Trading Corp, N Y

HERCULES

Plastics Molding Powders

Cellulose acetate and ethyl cellulose.

GM50-3

HERCULES POWDER COMPANY INCORPORATED

Wilmington, Delaware

MORDANTS, TEXTILE

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200

MOTH PROOFING COMPOUNDS

Specially formulated compounds, usually containing derivatives of cube, derris or pyrethrum, silicofluorides and certain synthetics, which when applied to textiles provide immunity against attacks by moths for an indefinite period of time.

Amer Agricultural Chem Co, 90 Church St, N Y	Barclay 7-1400
Chem Insecticide Corp, 57 13 St, Bklyn, N Y	South 8-7141
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Davison Chem Corp, 101 N Charles St, Baltimore, Md	Saratoga 3900
Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Merck & Co Inc, 100 Lincoln Av, Rahway, N J	Rahway 7-1200
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2240
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512

Cidex Corp, Jersey City, N J
Elkay Prods Co, N Y
Perkins Soap Co, Springfield, Mass
Uncle Sam Chem Co, Inc, N Y
Williams Chem Corp, Miami, Fla

NITRIDING COMPOUNDS

Preparations for increasing the hardness of metal through the formation of metallic nitrides. See also Case-Hardening Materials, Carburizing Compounds.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010

Haviland Prods Co, Grand Rapids, Mich
Heatbath Corp, Springfield, Mass
Park Chem Co, Detroit, Mich

OIL AND FAT REFINING AGENTS

Attapulgus Clay Co, 210 W Washington Sq, Phila, Pa	Walnut 2-5720
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Napco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Oronite Chem Co, 38 Sansome St, San Fran, Calif	Exbrook 2-0923

Norworth Chem Co, Framingham, Mass

★See ad in Catalog Section

OIL TREATING COMPOUNDS

Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300

Flexoid Prods, Inc, Boston, Mass — Tretolite Co, St Louis, Mo

OILS, ADDITIVE

Amer Lecithin Co, Inc, 57-01 32 Av, Woodside, N Y — Astoria 4-4350
Hercules Powder Co, 978 Market St, Wilmington, Del
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Marcus-Ruth-Jerome Co, 327 LaSalle St, Chicago, Ill — Harrison 7-1760
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Ohio-Apex Inc, Nitro, W Va — Nitro 152
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Harrison 7-3341

Barton Chem Co, Chicago, Ill
Carlisle Chem Wks, Reading, Pa
Flexoid Prods, Inc, Boston, Mass
Gulf Oil Corp, Pittsburgh, Pa
Smith, E W, Chem Co, Los Angeles, Calif
Superior Chem Wks, Louisville, Ky
Tretolite Co, St Louis, Mo
Wasco Eng Corp, N Y

OILS, BINDER-TWINE

Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

OILS, BLOWN

Often termed base oils; are usually cottonseed, rape, whale, or fish oils which have been thickened by a process of partial oxidation and specially prepared for lubrication purposes.

General Mills, Inc, Chem Div, 400 2 Av S, Minneapolis, Minn — Atlantic 1144
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

OILS, CORE

Specialized oils used in foundries to treat cores.

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383

Pruett-Schaeffer Chem Co, Pittsburgh, Pa

OILS, COTTON-SPRAYING

Proprietary compounds which are applied to cotton (usually in a fine spray) to condition the fibres for the manufacture of yarn and finished cloth, and at the same time improve the working conditions in the mill. Should penetrate the fibres thoroughly and uniformly, should have no detrimental effect on later bleaching and dyeing operations. Should make the fibres more flexible and thus easier to draft; should reduce static; should reduce fly, dust and shedding; prevent breakage of long fibres; produce smoother yarns; in general restore the natural oils and moisture to cotton which has been stored for long periods.

Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200

OILS, CUTTING (Semi-Soluble)

Used where a water solution cannot be successfully employed, especially on high carbon steels, to carry off the heat and to keep tools in good condition, producing a smooth, clean cut. See also Cutting Compounds.

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600

OILS, CUTTING (Soluble)

Concentrated lubricants to which water is usually added, to keep tools, etc., cool when used at high speeds preserving temper and retaining a proper cutting edge. Employed for automatic screw machines, lathes, milling, stamping, sawing, drilling, tapping, punching, planing, and grinding; also for pipe cutting and threading.

OILS, CUTTING (cont'd)

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600

Macco Prods Co, Chicago, Ill
Phoenix Oil Co, Cleveland, O
Universal Chem Co, Boston, Mass
Wood, W A, Co, Boston, Mass

OILS, CUTTING BASES

Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

Carlisle Chem Wks, Reading, Pa
Macco Prods Co, Chicago, Ill
Universal Chem Co, Boston, Mass
White & Bagley Co, Worcester, Mass
Wood, W A, Co, Boston, Mass

OILS, CUTTING, SULFURIZED

Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146

Macco Prods Co, Chicago, Ill
Universal Chem Co, Boston, Mass
Warren Refg & Chem Co, Cleveland, O
White & Bagley Co, Worcester, Mass
Wood, W A, Co, Boston, Mass

OILS, DIP

Coal-tar base principally used for preparation of animal dips.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800

OILS, DOOR-CHECK

Special oils used to fill the recoil systems in door-checks. Should have high viscosity; should be non-injurious to metallic surfaces and also to packings.

Read, Chas L, & Co, 120 Greenwich St, N Y — Worth 4-1131
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146

OILS, DRIP

Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

OILS, DRIVING, TANNING

Driving oils are generally considered as those oils which are so treated that they have the property of emulsifying additional quantities of vegetable, animal, or mineral oil. They are generally used in conjunction with an untreated oil in the fatliquoring process, but may also be used alone where it is necessary to have a good penetration of the oil globules. Oils with these peculiar qualities (driving oils) may vary greatly in composition. They may consist of oils which have been sulfated more highly than usual; they may be sulfated oils in which a larger amount than usual of the sulfate groups has been neutralized with an alkali; or they may be sulfated oils in which not only the sulfate group has been completely neutralized but in which varying amounts of the fatty acids have been neutralized. These oils also may contain larger or smaller amounts of oxidized or hydroxylated oils. As stated above, their compositions may and do vary greatly. This necessarily must be true because they are used for various purposes.

Elbert & Co, Inc, 2 Bway, N Y — Digby 8-2670
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

OILS, DRYING, SYNTHETIC

Products synthetically produced used in place of the natural drying oils, such as linseed, tung, perilla, oiticica, etc.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800

Synthetic Drying Oils — *Styrenated Oils*

ISOLINE

(Dehydrated Castor Oil)
(Supplied to Viscosities of G-H, M, Z, Z2, Z3, on Gardner Holdt Scale)

CONJULIN
(Conjugated Linseed Oil)
Viscosities Z-Z3

WOLIN
(A Higher Alcohol Ester)

CONJUSOY
(Conjugated Soybean Oil)
Viscosities Z-Z3

Producers of Specification Fatty Acids

WOBURN CHEMICAL CORP. (N. J.)
KEARNY, N. J.
1200 HARRISON AVENUE • HARRISON POST OFFICE
Woburn Degreasing Co. Woburn, Mass.
Woburn Chemicals, Ltd. Toronto, Canada

Synthetic Drying Oils
Other Organic Chemicals

★See ad in Catalog Section

Hydrocarbon
PANAPOL
Drying Oils
Series of synthetic hydrocarbon drying oils available in various color and viscosity grades.
PAN AMERICAN CHEMICALS
PAN AMERICAN DIVISION Chemicals
122 East 42nd Street New York 17, N. Y.

OILS, DRYING, SYNTHETIC (cont'd)

Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Pan Amer Refg Corp, 122 E 42 St, N Y — Lexington 2-4322
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Woburn Chem Corp, Harrison, N J — Kearny 2-3300

OILS, EXTRUDING

Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Doyle, James W, Corp, Detroit, Mich

OILS, FLOTATION

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Gross, A, & Co, 295 Madison Av, N Y — Murray Hill 3-8250
Hercules Powder Co, 978 Market St, Wilmington, Del
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333

OILS, FROTHING

Products used to produce froth and employed principally in the flotation processes of metal or ore refining.

Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

OILS, FUR DRESSING

Products used to give a gloss and sheen to furs and to provide a protective coating, etc.

Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Apex Chem Co, N Y — Phoenix Oil Prods Corp, Newark, N J

OILS, GARNETTING

Oils, usually emulsified with water, applied to rags prior to the garnetting process. Garnetting refers to the process of obtaining shoddy by a mechanical process of tearing up woolen rags and waste in a machine similar to coarse carding.

Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Wood, W A, Co, Boston, Mass

OILS, GEAR CUTTING

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Wood, W A, Co, Boston, Mass

OILS, GRAPHITED

Lubricating oils which contain a relatively small percentage of graphite, usually in the colloidal form, which raises the critical temperature, thus permitting the use of smaller quantities of oil. This is desirable at high temperatures where excess oil forms an excess of troublesome carbon. Less oil also entraps less dirt, reduces the fire-hazard.

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Acheson Colloids Corp, Port Huron, Mich — Impoil Co, Inc, Jersey City, N J
Amer Grease Stick Co, Muskegon, Mich — Superior Flake Graphite Co, Chicago, Ill

OILS, HOBBING

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

OILS, HYDRAULIC

Oils of high viscosity used in hydraulic presses, door checks, etc.

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500

OILS, HYDRAULIC (cont'd)

Elbert & Co, Inc, 2 Bway, N Y — Digby 9-2670
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
Bell Co Inc, Chicago, Ill — Warren Refg & Chem Co, Cleveland, O
Gulf Oil Corp, Pittsburgh, Pa — Wood, W A, Co, Boston, Mass

OILS, INK

Oils employed in ink making are classified as drying, semi-drying, and non-drying, the last being chiefly of petroleum origin. They are sometimes referred to as varnishes when in the finished state. Boiled oils dry much more rapidly than raw oils. Usually ink makers add a drier to the oil or mixture of oils.

C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3630
General Mills, Inc, Chem Div, 400 2 Av S, Minneapolis, Minn — Atlantic 1144
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Pan Amer Refg Corp, 122 E 42 St, N Y — Lexington 2-4322
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383
Amer Lithographic Varnish Co, Kearny, N J — Senefelder Co, Inc, N Y
Gulf Oil Corp, Pittsburgh, Pa

OILS, INSULATING

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Oil States Petroleum Co, Inc, N Y

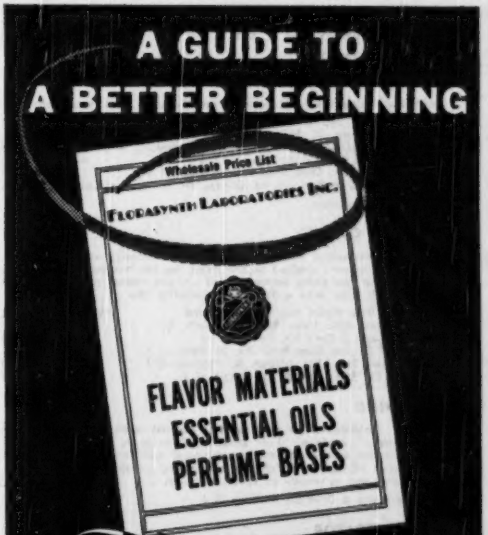
OILS, PENETRATING

Lubricants of varying formulation (but often containing graphited oil) used to silence squeaks in inaccessible places in machinery, etc., to loosen up "frozen" nuts and bolts, and as a lubricant for leaf springs, chains, commutators, distributors, magnetos, timers, hinges, locks, etc.

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Amer Grease Stick Co, Muskegon, Mich — K & L Chem Co, Chicago, Ill
Bell Co Inc, Chicago, Ill — Park Chem Co, Detroit, Mich
Cabot, Samuel, Inc, Boston, Mass — Elp Prods Co, Los Angeles, Calif
Impoil Co, Inc, Jersey City, N J

OILS, PERFUME

Products used in imparting pleasing odor and "covering up" disagreeable ones, in such preparations as: tissue, cold and vanishing



*See ad in Catalog Section

OILS, PERFUME (cont'd)

creams, lotions, toilet and liquid soaps, toilet waters, shaving creams, bath salts, polishes, leather finishes, lubricating oils, water softeners, sanitary blocks, waxes, typewriter ribbons, insecticides, theatre and fly sprays, printing and multigraphing inks, greases, pastes, adhesives, etc. See Deodorants; also Perfumes.

Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Firmenich & Co, 250 W 18 St, N Y	Watkins 9-5220
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

Bush Aromatics Inc, N Y
Chaleyer, Ph, Inc, N Y
Cosmetic Mfg Supply Co, Chicago, Ill
Evergreen Chem Co, Inc, N Y
Felton Chem Co, Inc, Bklyn, N Y
Gunning & Gunning, Inc, N Y
Lautier Fils Inc, N Y
Maschmeijer, Jr, A, Inc, N Y
N Y Aromatics Corp, N Y
Revson, H F, Co, N Y
Ryland, H C, Inc, N Y
Seebach, Edwin, Co, N Y

OILS, PLASTICIZING

Products which are employed as solvents and plasticisers for chlorinated rubber coatings, plastic compounds, fly paper, adhesives, printing inks, dyes, caulking compounds, waterproofing compositions, rubber resin finishes, aluminum pastes, and wherever an unsaponifiable, neutral, substantially non-drying oil is required. Also used as an anti-skinning agent in paints; in the manufacture of artificial leathers, lacquers, electrical filling compounds, etc.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill	Bishop 2-1374
Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Indoil Chem Co, 910 S Michigan Av, Chicago, Ill	Harrison 7-9200
Michel, M, & Co, Inc, 90 Broad St, N Y	Digby 4-3878
Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Ohio-Apex Inc, Nitro, W Va	Nitro 152
Ozonite Chem Co, 58 Sansome St, San Fran, Calif	Exbrook 2-0923
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y	Lexington 2-5806
Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600

Goodrich, B F, Chem Co, Cleveland, O

OILS, PUTTY

Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760

Landen Putty Wks, Malden, Mass

OILS, QUENCHING

Materials which are used to cool metals after heat treatment.

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Kali Mfg Co, 427 Meyer St, Phila, Pa	Regent 9-2370
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146

Wood, W A, Co, Boston, Mass

OILS, RAYON CONING

Usually compounded mineral oils of low viscosity or body which emulsify in water; applied to the yarn, on the coning machine and just prior to the yarn being wound on the cones, by means of a roller which dips into a trough containing the oil.

Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

OILS, REAMING

Specially formulated to provide for desired accuracy of cut and smoothness of surface. For usual work mineral or petroleum oil alone will not suffice. Specially processed additives are used which give cooling effect, lower friction values and provide for satisfactory penetration and coverage of metal surfaces.

Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200

OILS, REFRIGERATOR

Specialized lubricating oils used in refrigerating units, ice-making machines, air-conditioning units, etc. Should possess high resistance to sludging, good stability, slow rate of decomposition, nigh value of demulsibility.

Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y	Virginia 9-6176
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146

Oil States Petroleum Co, Inc, N Y

OILS, ROAD

Products, largely of coal-tar or petroleum origin, used on roads to lay dust and to act in general as a binder.

Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind Market 9461

RECLAIMING OILS

Special RECLAIMING OILS for the RUBBER INDUSTRY developed after extensive research and proven by continued use to be superior: PARA-FLUX — Heavy, and 2016 — 3186 — 3186-G — 3186-N

The **C. P. Hall** *Co.*

CHEMICAL MANUFACTURERS

Akron • Los Angeles • Chicago

OILS, RUBBER RECLAIMING

Amer Mineral Spirits Co, 153 E 44 St, N Y	Murray Hill 2-6490
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Elbert & Co, Inc, 2 Bway, N Y	Digby 8-2670
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
National Rosin Oil Prods, Inc, 1270 6 Av, N Y	Circle 7-4473
Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600

PICCO

RECLAIMING OILS

and rubber compounding and softening materials

PENNSYLVANIA INDUSTRIAL CHEMICAL CORP.

CLAIRTON, PENNSYLVANIA

OILS, SHINGLE-STAIN

Coal-tar oils with or without dyes used to stain and preserve shingles

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind	Market 9461
Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo	Laclede 2201

Lewis Tar Prods Co, Lyons, Ill

OILS, SIZE

Usually a thinning varnish for sizing new plaster walls, thinning and sealing flat paints before gloss painting.

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

OILS, SLUSHING

Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600

Amer Lanoline Corp, Lawrence, Mass Gulf Oil Corp, Pittsburgh, Pa

OILS, SOAKING, HOSIERY YARN

Special water soluble oils supplying the necessary clearance and proper conditioning and suitable for soaking silk for hosiery tram, warps, and filling.

OILS, SOAKING, HOSIERY YARN (cont'd)

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

OILS, SOAKING, RAYON CREPE

Specialized oils of excellent penetrating powers that are used to condition rayon yarns; to give a greater elasticity and pliability so as to prevent mechanical breaks.

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

Colloids Inc, Newark, N J

OILS, SOLUBLE, METAL-WORKING

See also Cutting Compounds and Oils, Cutting.

Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Elbert & Co, Inc, 2 Bway, N Y	Digby 4-2670
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Secony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146

Heatbath Corp, Springfield, Mass
Maceo Prods Co, Chicago, Ill
Reilly-Whiteman-Walton Co, Conshohocken, Pa
White & Bagley Co, Worcester, Mass
Wood, W A, Co, Boston, Mass

OILS, TEMPERING

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700

Wood, W A, Co, Boston, Mass

OILS, TEXTILE

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I	Centredale 0951
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill	Superior 7-8432
Martyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill	Torrence 2-6962
Morningstar Nicol, Inc, 630 W 51 St, N Y	Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill	Canal 6-2219
Petroleum Specialties, Inc, 205 E 42 St, N Y	Oregon 9-2310
Stahl Finish Co, 23 Caller St, Peabody, Mass	Peabody 371
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Secony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

Apex Chem Co, N Y
Bryant Chem Corp, North Quincy, Mass
Commonwealth Color & Chem Co, N Y
Continental Chem Co, Passaic, N J
Eastern Color & Chem Co, Providence, R I
Gulf Oil Corp, Pittsburgh, Pa
Hart Prods Corp, N Y
Laurel Soap Mfg Co, Phila, Pa
Lonza Chem Co, Phila, Pa
Oil States Petroleum Co, Inc, N Y
Safran Chem & Supply Co, Lynn, Mass
Seydel-Woolley & Co, Atlanta, Ga
Swift & Co, Chicago, Ill
Synthron Inc, Ashton, R I
Universal Chem Co, Boston, Mass

OILS, TEXTILE, COTTON

Finishing oils formulated to give a finish or glaze to cotton yarns. Should not give a yellowish tinge to goods on ageing, in many instances products of this type exert an effect of leveling up shades, should also impart to the goods a very lofty handle.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I	Centredale 0951
Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
Michel, M, & Co, Inc, 90 Broad St, N Y	Digby 4-3878
Morningstar Nicol, Inc, 630 W 51 St, N Y	Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Stahl Finish Co, 23 Caller St, Peabody, Mass	Peabody 371
Secony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

STANTEX OILS
(Registered U. S. Patent Office)
Coning Oils
Soaking Oils
Sizings
Wool Oils
Scouring Oils
Penetrating Oils
Soluble Oils
Base Oils
STANDARD CHEMICAL PRODUCTS, Inc.
113th and JEFFERSON STREETS, HOBOKEN, NEW JERSEY

OILS, TEXTILE, RAYON

Colorless, odorless, stainless oils used to lubricate rayon yarns in the weaving process so as to prevent breaking of the thread.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I	Centredale 0951
Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500
Drew, E F, & Co Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
Michel, M, & Co, Inc, 90 Broad St, N Y	Digby 4-3878
Morningstar Nicol, Inc, 630 W 51 St, N Y	Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Secony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

Colloids Inc, Newark, N J

OILS, TEXTILE, SILK

Wide variety of oils employed by throwsters for softening raw silk. Olive oil, coconut oil, neatsfoot oil, sulfonated oils, special combinations of these and other oils often with added soap are used. More recently complex organic products, such as the higher fatty alcohols, have been introduced.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I	Centredale 0951
Drew, E F, & Co Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
Michel, M, & Co, Inc, 90 Broad St, N Y	Digby 4-3878
Morningstar Nicol, Inc, 630 W 51 St, N Y	Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Secony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

Colloids Inc, Newark, N J

OILS, TEXTILE, WOOL

Neutral soaps providing uniform emulsion, which penetrate easily, do not stain, and wash out readily. Used to lubricate the fibre as well as for the cleansing effect.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I	Centredale 0951
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Drew, E F, & Co Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
Michel, M, & Co, Inc, 90 Broad St, N Y	Digby 4-3878
Morningstar Nicol, Inc, 630 W 51 St, N Y	Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Secony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

Foster Finishing Prods Co, Phila, Pa
Watson-Part Co, Boston, Mass
Wood, W A, Co, Boston, Mass

OILS, THREADING

Threading operations demand a lubricant and coolant. The oils used must be so made up that great film strength is obtained, rapid penetration and spread afforded, and a decided cooling effect produced. The cutting edge which forms the thread must be kept clean and free.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Drew, E F, & Co Inc, 15 E 26 St, N Y	Murray Hill 6-2800

OILS, THROWING

Oils employed by the throwster in preparing raw silk in various soaking baths for the subsequent stages of knitting into silk goods, dyeing and finishing. See also Oils, Textile (silk).

OILS, THROWING (cont'd)

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Colloids Inc, Newark, N J

OILS, VEGETABLE, VULCANIZED

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

OILS, WOOL SCOURING

See also Scouring Compounds (Textile).

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Kearny Mfg Co, Inc, Kearny, N J

OPACIFIERS, ENAMEL

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Metal & Thermit Corp, 100 E 42 St, N Y — Murray Hill 6-5300
★Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Harrison 7-3541

TAM
ZIRCONIUM TITANIUM PRODUCTS
Registered U. S. Pat. Off.

*TAM Zirconium Opacifiers are available with various analysis and materially different physical properties to fit every Ceramic need. A partial list is given here.

OPAX OPAX S CALCIUM ZIRCONIUM SILICATE
*MELTOPAX MAGNESIUM ZIRCONIUM SILICATE
ZIRCON MILLED & GRANULAR *TREOPAX
*TREOPAX S & Z *ZIRCOPAX *SUPERPAX RUTILES
*SETIT A & B ZIRCONIUM OXIDE
ZIRCONIUM SPINEL & ZINC ZIRCONIUM SILICATE

* Registered Trade Mark

TITANIUM ALLOY MFG. DIVISION
NATIONAL LEAD COMPANY
Office: 111 Broadway, N. Y. C. Plant: Niagara Falls, N. Y.

For other products and services see our ads in Catalog Section

OPACIFIERS, GLASS

Opacity in enamel and glaze is due to the reflection of light by glassy layers. In order to have maximum opacity, presence of many uniformly distributed reflecting bodies are required—opacifying agents act as the producing crystalline compounds in glazes and enamel.

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
★Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Barclay 7-0943

OXIDES, ENAMELERS'

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Filo Color & Chem Corp, 202-206 E 44 St, N Y — Murray Hill 2-4884
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Eagle Picher Co, Cincinnati, O

PACKAGING, PRIVATE LABEL

Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
Gray, Wm S, & Co, 342 Madison Av, N Y — Murray Hill 2-3100
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000

PACKAGING, PRIVATE LABEL (cont'd)

Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
National Chem Co, 1516 Industrial St, Los Angeles, Calif — Trinity 4055

Barton Chem Co, Chicago, Ill
Cosmetic Mfg Supply Co, Chicago, Ill
Gesell, R, Inc, N Y
Mertz, L Carlton, Co, Chicago, Ill
Nor-Ed Chem Co, Yorkshire, N Y
Penetone Co, Tenafly, N J
Smith, E W, Chem Co, Los Angeles, Calif
White Rose Chem Co, Salem, Ore

PACKING, CHEMICAL RESISTANT

Materials for stopping leakage of fluids, usually compounded from various types of asbestos, formulated so as to resist the action of acids, alkalies, or solvents.

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

PAINT BASES

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Hercules Powder Co, 978 Market St, Wilmington, Del
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Amer Chem Paint Co, Ambler, Pa
Kay & Ess Co, Dayton, O

PAINT BASES, MILDEW PROOF

Hercules Powder Co, 978 Market St, Wilmington, Del
Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Chemineal Co, Detroit, Mich
Wilbur & Williams Co, Boston, Mass

PAINT BASES, RESIN EMULSION

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Hercules Powder Co, 978 Market St, Wilmington, Del
Stahl Finish Co, 23 Calfer St, Peabody, Mass — Peabody 371
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Wilbur & Williams Co, Boston, Mass

PAINTS, ACID-ALKALI RESISTANT

Specially formulated paints, largely of the synthetic resin type, exhibiting great resistance to the chemical action of acids and alkalies.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222

E. & F. KING & CO., Incorporated

Industrial Chemicals

ALKALIES
CHROMIUM CHEMICALS
MINERAL ACIDS
ALUMS
LIME

and other Chemical Specialties

Also

Manufacturers of paints and putties for Industrial and Contract use. Creators and manufacturers of Permodip, a wood preservative.

E. & F. KING & CO., Incorporated
640 Pleasant St., Norwood, Mass.
N. Y. Office 60 East 42nd St.
Plants: Norwood, Salem, Mass.

PAINTS, ACID-ALKALI RESISTANT (cont'd)

Atlas Mineral Prods Co, Mertztown, Pa — Topton 37
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
National Chem Co, 1516 Industrial St, Los Angeles, Calif — Trinity 4055
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Saureisen Cements Co, Saureisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Advance Paint Co, Indianapolis, Ind
Bauer, J E, Co, Los Angeles, Calif
Briggs-Maroney Co, Inc, Everett, Mass
Carboline Co, St Louis, Mo
Cellcote Co, Cleveland, O
Deboroise Co, Bklyn, N Y
Electro Chem Supply & Eng Co, Emmaus, Pa
Hague, Alfred, & Co, Inc, Bklyn, N Y
Inertol Co, Inc, Newark, N J
Irvington Varnish & Insulator Co, Irvington, N J
Jamestown Paint & Varnish Co, Jamestown, Pa
Kay & Ess Co, Dayton, O
Lowe Bros Co, Dayton, O
Markal Co, Chicago, Ill
Metalead Prods Corp, San Fran, Calif
Nukem Prods Corp, Buffalo, N Y
Pacific Plastics & Chem Co, Redwood City, Calif
Pecora Paint Co, Inc, Phila, Pa
Quigley Co, Inc, N Y
Ruberoid Co, N Y
Schaffer-Moss Chem Corp, Pittsburgh, Pa
Simmons Prods Co, Inc, N Y
Toch Bros Inc, Staten Is, N Y
United Lacquer Mfg Corp, Linden, N J
U S Gutta Percha Paint Co, Providence, R I
U S Varnish Co, Hasbrouck Hghts, N J
Varnitos Co, Burbank, Calif
Wilbur & Williams Co, Boston, Mass
Wooster Sealkote Co, Wooster, O

PAINTS, ALUMINUM

Formulated with the metallic paste or powder for surfaces periodically or continuously subjected to high temperature, such as steam lines, furnace doors, steam-jacketed kettles, etc., also now employed as a sealer on new and old work.

Bergstrom Trading Co Inc, 233 Bway, N Y — Worth 2-5170
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
King, E & F. & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Arco Co, Cleveland, O
Armstrong Paint & Varnish Wks, Chicago, Ill
Bauer, J E, Co, Los Angeles, Calif
Bostwick Labs Inc, Bridgeport, Conn
Briggs-Maroney Co, Inc, Everett, Mass
C-A Wood Preserver Co, St Louis, Mo
Chem Supply Co, Cleveland, O
Deboroise Co, Bklyn, N Y
Eagle Picher Co, Cincinnati, O
Inertol Co, Inc, Newark, N J
Jamestown Paint & Varnish Co, Jamestown, Pa
Kay & Ess Co, Dayton, O
Kepec Chem Corp, Milwaukee, Wis
Old Colony Paint & Chem Co Labs, Los Angeles, Calif
Quigley Co, Inc, N Y
Ruehl Paint Co, Cincinnati, O
Sahlin Color & Chem Co, Camden, N J
Schaffer-Moss Chem Corp, Pittsburgh, Pa
Union Chem Corp, Newark, N J
U S Gutta Percha Paint Co, Providence, R I
Vita-Var Corp, Newark, N J
Wilbur & Williams Co, Boston, Mass
Wooster Sealkote Co, Wooster, O

PAINTS, ANTI-FOULING

Paints particularly compounded for use on ship's bottoms to retard barnacle growth. Cuprous oxide and mercuric oxide are usually constituents in varying proportions depending upon usual location of the vessel in north temperate, south temperate or tropical waters.

King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Stish, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265

PAINTS, ASPHALT

Formulated with pure asphalt as a base, resistant to moisture, acids, alkalies, and used in coating cables, tubing, battery boxes, asbestoboards, cable and conduit joints, painting metal surfaces such as tanks, vats, equipment; for coating vats, etc., in vinegar and cider manufacture.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Carey, Philip, Mfg Co, Cincinnati, O — Valley 3000
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Saureisen Cements Co, Saureisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Asphalt Emulsion Service Inc, N Y
Berry Asphalt Co, Magnolia, Ark
Cellcote Co, Cleveland, O
Inertol Co, Inc, Newark, N J
Jamestown Paint & Varnish Co, Jamestown, Pa
Schaffer-Moss Chem Corp, Pittsburgh, Pa
Wooster Sealkote Co, Wooster, O

PAINTS, BATTERY

Made with asphalt, gilsonite, and such solvents as mineral spirits; are quick drying, and rather heavy bodied. Their spreading rate is low and they form rather a heavy film. Principal characteristics are, high chemical and water resistance, and low price.

Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Bauer, J E, Co, Los Angeles, Calif
Kay & Ess Co, Dayton, O

PAINTS, BITUMINOUS

Coatings with a bituminous base and used largely on roofs and on pipe lines, gas mains, etc., to provide protection against moisture, salts, alkalies, acids, and electrolysis.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200

PAINTS, BITUMINOUS (cont'd)

Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Cellcote Co, Cleveland, O
Hague, Alfred, & Co, Inc, Bklyn, N Y
Inertol Co, Inc, Newark, N J

PAINTS, BOILER

Paints for boiler fronts formulated with special oils and gums to obtain excellent elasticity and resistance to quick changes of temperatures. Should withstand temperatures between 500 to 700° F. without losing life or lustre; should resist steam, smoke, fumes, gases, acids, and alkalies.

Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Jamestown Paint & Varnish Co, Jamestown, Pa

PAINTS, CASEIN

Coatings in which casein replaces the linseed or other drying oils of ordinary paint. Casein provides the sizing property, whereas fillers supply the covering power. For indoor ornamental work, the usual fillers are lime, powdered chalk, or kaolin. For outside, lime or cement becomes the filler. The paint is prepared by mixing intimately correct proportions of casein, filler and pigment in a mill. The finished powder is mixed with water to correct consistency when used by the consumer. Casein paints provide pleasant effects, are very durable, and with special treatment are washable.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
★Monsanto Chem Co, Western Div, 911 Western Av, Seattle, Wash — Ma 4203
National Casein Sales, 601-619 W 80 St, Chicago, Ill — Vincennes 6-7300
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Adler, A, & Son, Phila, Pa
Alabastine Paint Prods, Chicago, Ill
Sterling Paint & Varnish Co, Malden, Mass
Tamms Silica Co, Chicago, Ill

PAINTS, CEMENT

Highly specialized formulations characterized by chemical resistance and hardness which waterproof and prevent disintegration of cement or concrete surface, thereby eliminating chalking and dusting. Somewhat different formulations are used on stucco, brick, stone and cement for floor and wall surfaces, exterior or interior.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Adler, A, & Son, Phila, Pa
Amer Fluresit Co, Cincinnati, O
Briggs-Maroney Co, Inc, Everett, Mass
Ceresit Waterproofing Corp, Chicago, Ill
Chemical Co, Detroit, Mich
Devere Co, Racine, Wis
Eagle Picher Co, Cincinnati, O
Euclid Chem Co, Cleveland, O
Master Builders Co, Cleveland, O
Minnesota Paints, Inc, Minneapolis, Minn
Nonweiler, A F, & Co, Oshkosh, Wis
Sullivan Co, Memphis, Tenn
U S Gutta Percha Paint Co, Providence, R I
Wilbur & Williams Co, Boston, Mass

PAINTS, CHLORINATED RUBBER

Specialized formulations containing chlorinated rubber which improves gloss, increases durability of the finish, accelerates drying rate, increases resistance to corrosion, acids and alkalies. Find special applications as anti-corrosion coatings on metal structures, equipment, etc., in concrete coatings, etc.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Bute, James, Co, Houston, Texas
Carboline Co, St Louis, Mo
Deboroise Co, Bklyn, N Y
Dehls & Stein, Inc, Newark, N J
Devere Co, Racine, Wis
Globe Paint Co, Inc, Bklyn, N Y
Globe Paint Wks, Inc, Williamsport, Pa
Hague, Alfred, & Co, Inc, Bklyn, N Y
Inertol Co, Inc, Newark, N J
Jamestown Paint & Varnish Co, Jamestown, Pa
Lowe Bros Co, Dayton, O
McDougall-Butler Co, Inc, Buffalo, N Y
Old Colony Paint & Chem Co Labs, Los Angeles, Calif
Raffi & Swanson, Inc, Chelsea, Mass
Sahlin Color & Chem Co, Camden, N J
Toch Bros Inc, Staten Is, N Y
Wilbur & Williams Co, Boston, Mass

PAINTS, COLD WATER

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Adler, A, & Son, Phila, Pa
Alabastine Paint Prods, Chicago, Ill
Tamms Silica Co, Chicago, Ill

PAINTS, DAMP RESISTING

Elastic, full bodied, tacky products prepared for spray or brush application to the interior surfaces to prevent the penetration of dampness and to make the inside stain-proof.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Adler, A, & Son, Phila, Pa
Deboroise Co, Bklyn, N Y
Hague, Alfred, & Co, Inc, Bklyn, N Y
Lowe Bros Co, Dayton, O
Old Colony Paint & Chem Co Labs, Los Angeles, Calif
Wilbur & Williams Co, Boston, Mass

PAINTS, DIPPING

Thin bodied paints used in the coating of production items. These paints are generally made with varnish vehicles and pigmented with the usual material, depending upon the color required. They dry quickly and are so formulated that the body of the paint in the tank remains constant during use. Dipping Paints also vary considerably in price, depending upon the service to which they are put.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Kay & Ess Co, Dayton, O
Old Colony Paint & Chem Co Labs, Los Angeles, Calif

PAINTS, FIRE RETARDANT

King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Armstrong Paint & Varnish Wks, Chicago, Ill
Globe Paint Co, Inc, Bklyn, N Y

PAINTS, GAS MAIN

Specialized paints highly resistant to moisture, salts, alkalies, certain organic acids, and electrolysis and excellent bonding properties to metal.

Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

PAINTS, GRAPHITE

Paints formulated with finely divided graphite for covering metal surfaces to act as an anti-corrosion coating.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Acheson Colloids Corp, Port Huron, Mich
Asbury Graphite Mills Inc, Asbury, N J
Globe Paint Wks, Inc, Williamsport, Pa
Ruehl Paint Co, Cincinnati, O

PAINTS, HEAT-RESISTANT

Formulated with heat resisting oils and selected fillers to be impervious to temperatures as high as 500 to 600°F., and employed on smoke stacks, locomotives, steel kettles, boiler fronts, incinerators, etc. See also Paints, Smokestack.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907
Bauer, J E, Co, Los Angeles, Calif
Deberoise Co, Bklyn, N Y
Globe Paint Co, Inc, Bklyn, N Y
Globe Paint Wks, Inc, Williamsport, Pa
Jamestown Paint & Varnish Co, Jamestown, Pa
Kay & Ess Co, Dayton, O
Kepec Chem Corp, Milwaukee, Wis
Markal Co, Chicago, Ill
Pingo Co, Boston, Mass
Schaffer-Moss Chem Corp, Pittsburgh, Pa
Wilbur & Williams Co, Boston, Mass

PAINTS, INSULATING

Coatings resistant to fire and in many instances resistant also to acids, oil, etc.; insulators of electricity; withstand high temperatures. Used in heat treating of steel for anti-carburizing, replacing asbestos paper for furnace pipes, fire-proof painting of wood, porcelainizing brick and concrete walls; as a protection on metal against rust and corrosion, sticking asbestos paper into annealing boxes, as a fire proof marking material in high temperatures; as a pulley dressing to prevent slipping; as a coating for factories, etc.

Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

PAINTS, LUMINOUS

Special paints, formulated with luminous pigments which "glow" in the dark, find application on watch and instrument dials, door knobs, electric light pull chains, signs, etc., and wherever attention to objects in the dark is desirable, either from an artistic or safety viewpoint. Color of the luminescence can be varied and controlled within wide limits.

Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Amer Prods Mfg Co, New Orleans, La
Vogel Luminescence Corp, San Fran, Calif

PAINTS, METALLIC

Specially formulated products, often containing finely ground iron oxides, for use on metal tanks, roofs, bridges, elevators, and other exposed metal surfaces. Should provide an intimate bond with the metal so as not to "lift" on long exposure to the elements. See also Paints, for Rusted Metal Surfaces.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

PAINTS, METALLIC (cont'd)

Deberoise Co, Bklyn, N Y
Eagle Picher Co, Cincinnati, O
Jamestown Paint & Varnish Co, Jamestown, Pa
Kay & Ess Co, Dayton, O
Metaland Prods Corp, San Fran, Calif
United Lacquer Mfg Corp, Linden, N J

PAINTS, MILDEW PROOF

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Armstrong Paint & Varnish Wks, Chicago, Ill
Bauer, J E, Co, Los Angeles, Calif
Bute, James, Co, Houston, Texas
Cidex Corp, Jersey City, N J
Deberoise Co, Bklyn, N Y
Inertol Co, Inc, Newark, N J
U S Gutta Percha Paint Co, Providence, R I
Wilbur & Williams Co, Boston, Mass

PAINTS, MILL WHITE

Paints formulated primarily for plants, lofts, schools, public buildings, etc., where pure whiteness and resistance to yellowing are essential. Should have good resistance to abrasion and vibration of factory walls, and should stand up under repeated washings.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Arco Co, Cleveland, O
Armstrong Paint & Varnish Wks, Chicago, Ill
Bauer, J E, Co, Los Angeles, Calif
Deberoise Co, Bklyn, N Y
Derere Co, Racine, Wis
Globe Paint Wks, Inc, Williamsport, Pa
Inertol Co, Inc, Newark, N J
Kay & Ess Co, Dayton, O
Minnesota Paints, Inc, Minneapolis, Minn
Nonweiler, A P, & Co, Oshkosh, Wis
Old Colony Paint & Chem Co Labs, Los Angeles, Calif
Sterling Paint & Varnish Co, Malden, Mass
U S Gutta Percha Paint Co, Providence, R I
Vita-Var Corp, Newark, N J
Wilbur & Williams Co, Boston, Mass

PAINTS, OIL-PROOF

Are made with a varnish vehicle, and are generally used for decorating machinery. Alkyd resin enamels are particularly suited for this service because of their resistance to heat and lubricating oil. Oil-proof enamels are also used for the painting of transformers which are subjected to both interior and exterior exposure, along with frequent splashing of oil.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
U S Gutta Percha Paint Co, Providence, R I

PAINTS, RESIN EMULSION

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Western Div, 911 Western Av, Seattle, Wash — Ma 4203
National Casein Sales, 601-619 W 80 St, Chicago, Ill — Vincennes 6-7300
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Armstrong Paint & Varnish Wks, Chicago, Ill
Globe Paint Co, Inc, Bklyn, N Y
Tamms Silica Co, Chicago, Ill

PAINTS, ROOFING

Protective coatings which possess special properties of resistance to extremes of weather and temperature for use on metal, concrete, brick, tile, wood, asbestos, and other types of roofing materials.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Armstrong Paint & Varnish Wks, Chicago, Ill
Bauer, J E, Co, Los Angeles, Calif
Cabot, Samuel, Inc, Boston, Mass
Schaffer-Moss Chem Corp, Pittsburgh, Pa
Vogel Luminescence Corp, San Fran, Calif
Wooster Sealkote Co, Wooster, O

PAINTS, FOR RUSTED METAL SURFACES

Elastic coatings applied directly on rusted surfaces (loose scale is first removed mechanically) which penetrate the pores of the rust, neutralizing the rust stimulants and rendering the surface passive.

Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Ebony Paint Mfg Co, Kansas City, Mo
Globe Paint Co, Inc, Bklyn, N Y
Inertol Co, Inc, Newark, N J
Nelson Chem Co, Detroit, Mich
Nielco Chems, Detroit, Mich
U S Gutta Percha Paint Co, Providence, R I

PAINTS, SMOKESTACK

Paints formulated with special oils and gums to impart great resistance to heat, durability, and elasticity.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Bauer, J E, Co, Los Angeles, Calif
Globe Paint Co, Inc, Bklyn, N Y
Globe Paint Wks, Inc, Williamsport, Pa
Jamestown Paint & Varnish Co, Jamestown, Pa
Markal Co, Chicago, Ill
Quigley Co, Inc, N Y
Schaffer-Moss Chem Corp, Pittsburgh, Pa
U S Gutta Percha Paint Co, Providence, R I
Vita-Var Corp, Newark, N J

PAINTS, STREET-MARKING

Specially prepared paints which dry to a tough film, resistant to abrasion and weather; used for marking streets, gas station driveways, loading platforms, etc.; should also have a high resistance to oil, water, alkali, and acids.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Armstrong Paint & Varnish Wks, Chicago, Ill
Bauer, J E, Co, Los Angeles, Calif
Debevoise Co, Bklyn, N Y
Devere Co, Racine, Wis
Jamestown Paint & Varnish Co, Jamestown, Pa
Kay & Ess Co, Dayton, O
Minnesota Paints, Inc, Minneapolis, Minn

PAINTS, STRUCTURAL

Coatings formulated with the two-fold purpose of protection against corrosion and appearance. Black finishing coats are generally formulated with red lead, black pigment, Prussian blue; others contain graphite. Where light colors are desired white-base pigments and various tinting colors are used. See also Primers, Paint, Metal.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Bauer, J E, Co, Los Angeles, Calif
Bute, James, Co, Houston, Texas
Debevoise Co, Bklyn, N Y
Inertol Co, Inc, Newark, N J
Jamestown Paint & Varnish Co, Jamestown, Pa
Metalead Prods Corp, San Fran, Calif
Nonweiler, A P, & Co, Oshkosh, Wis
Old Colony Paint & Chem Co Labs, Los Angeles, Calif
Quigley Co, Inc, N Y
Schaffer-Moss Chem Corp, Pittsburgh, Pa
U S Gutta Percha Paint Co, Providence, R I
Vita-Var Corp, Newark, N J

PAINTS, WATERPROOFING

Specially prepared paints, often containing gilsonite or some other form of asphalt, and providing surface protection against water, weather conditions, acids, alkalies. Usually recommended for use on bridges, fire escapes, tanks, etc.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Adler, A, & Son, Phila, Pa
Hague, Alfred, & Co, Inc, Bklyn, N Y
Euclid Chem Co, Cleveland, O
Horn, A C, Co, Inc, Long Is City, N Y
Inertol Co, Inc, Newark, N J
Pinco Co, Boston, Mass
Schaffer-Moss Chem Corp, Pittsburgh, Pa
Sika Chem Corp, Passaic, N J
Tamms Silica Co, Chicago, Ill

PARIS GREEN

A mixture of arsenious oxide and copper compounds used as an insecticide. See Copper Acetoarsenite.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Amer Firstaline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Dow Chem Co, Midland, Mich — Midland 500
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Chipman Chem Co, Inc, Bound Brook, N J

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

PASTES, BILL POSTER

Adhesives used by outdoor advertising companies to stick posters on bill-boards. Should have a high degree of imperviousness to water to prevent peeling and "running" of colors.

Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219

PASTES, BRONZE

Argus Chem Lab Inc, Bklyn, N Y

PASTES, CELLULOSE SHEETING

Special adhesives in the paste form used to bond products of the Cellophane type together.

Midland Glue Prods Co, Inc, Detroit, Mich

PASTES, GRAPHITE

Non-hardening joint-sealing compounds for use on pipe lines, flange and gasket joints, Diesel engines, automotive parts (particularly springs), crane housings, etc., for lubrication and to prevent corrosion. Expands when heated and makes a tight joint which resists oil, gasoline, petroleum products, steam, pressure and heat.

National Carbon Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323

PASTES, LABEL

Adhesives for paper labels on tin, glass, wood, painted and enameled surfaces.

Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323

Arabol Mfg Co, N Y
Borden Co, N Y
Findley, F G, Co, Milwaukee, Wis
Green's Paste Wks, Syracuse, N Y
Kepec Chem Corp, Milwaukee, Wis
Marks Chem Wks, N Y
Marstin Adhesive Co, Wollaston, Mass
Midland Glue Prods Co, Inc, Detroit, Mich
Scriptex Prods Co, Phila, Pa
Standard Paste & Glue Co, Inc, Chicago, Ill
Stiktotin Co, N Y
Williams Chem Corp, Miami, Fla

PASTES, LIBRARY

Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219

Arabol Mfg Co, N Y
Commercial Paste Co, Columbus, O
Diamond Ink & Adhesive Co, Milwaukee, Wis
Green's Paste Wks, Syracuse, N Y
Levison & Blythe Mfg Co, St Louis, Mo
Pomeroy, I, Co, Newark, N J
Scriptex Prods Co, Phila, Pa

PASTES, POWDERED

Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219

Knefler Bates Co, Indianapolis, Ind

PASTES, TEXTILE FINISHING

Pastes specially compounded usually of starches and gums for use on textile print machines to aid in giving a sharp regular line and clearcut detail. They also serve to give a good "cushion" between the blade and the roller.

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Kali Mfg Co, 427 Meyer St, Phila, Pa — Regent 9-2370
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200

PASTES, TIN LABELING

Specialized pastes which give particularly good bond between paper labels and tin containers, etc., should prevent rust spots; should hold securely under all conditions; should not affect ordinary colors, should not warp or wrinkle paper, should not become rancid in warm weather or climates.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323

Arabol Mfg Co, N Y
Commercial Paste Co, Columbus, O
Findley, F G, Co, Milwaukee, Wis
Hughes Glue Co, Detroit, Mich
Marstin Adhesive Co, Wollaston, Mass
Midland Glue Prods Co, Inc, Detroit, Mich
Scriptex Prods Co, Phila, Pa
Standard Paste & Glue Co, Inc, Chicago, Ill

PASTES, WALL PAPER

Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219

Findley, F G, Co, Milwaukee, Wis

PENETRANTS, CARBONIZING

Abrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910

Hart Prods Corp, N Y

PENETRANTS, LEATHER

Products which aid the entrance of the dye into leather.

Abrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Stahl Finish Co, 23 Calier St, Peabody, Mass — Peabody 371
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910

Leatex Chem Co, Phila, Pa
Phoenix Oil Prods Corp, Newark, N J
Scriptex Prods Co, Phila, Pa

PENETRANTS, TEXTILE

Wide variety of preparations, including pine oil, cresols, organic solvents, etc., used to assist in obtaining a deeper and more thorough penetration of the dye, giving to the finished goods a more "leveled" appearance.

Abrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935

MOYTOL
for dyeing, fulling and carbonizing all woolen goods.

PENETRATORS
No. 20, No. 40 and No. 50 for dyeing, sizing and finishing of all textiles.

STANDARD CHEMICAL PRODUCTS, Inc.
113th and JEFFERSON STREETS, HOBOKEN, NEW JERSEY

PENETRANTS, TEXTILE (cont'd)

Atlantic Chem Co, 2072 Smith St, Centredale, R I	Centredale 0951
Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
Bernard Color & Chem Corp, 335 Hudson St, N Y	Watkins 4-5460
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J	Bergen 4-1300
Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Hercules Powder Co, 978 Market St, Wilmington, Del	
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill	Superior 7-8432
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Michel, M. & Co, Inc, 90 Broad St, N Y	Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J	Sherwood 2-1726
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J	Sherwood 2-4910
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill	Harrison 7-3541
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000
Wollen Chem & Supply Co, 126 G Av, Paterson, N J	Lambert 3-3600

Bryant Chem Corp, North Quincy, Mass
Colloids Inc, Newark, N J
Commonwealth Color & Chem Co, N Y
Continental Chem Co, Passaic, N J
Lanatex Chem Co, Providence, R I
Laurel Soap Mfg Co, Phila, Pa
Leatex Chem Co, Phila, Pa
Marlowe-Van Loan Corp, High Point, N C
Seydel-Woolley & Co, Atlanta, Ga
Synthron Inc, Ashton, R I
Titan Chem Prods Inc, Jersey City, N J

PEPTIZING AGENTS, RUBBER

Certain types of accelerators which when added, for example, in the formulation of a rubber cement increase rapidly the gelling effect. Peptizing action (a swelling action) is also given to vulcanized rubber by special groups of accelerators.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

PERFUME BASES

Semi-finished blends of aromatic chemicals and natural materials used by perfumers as a base for building up their own finished goods.

Aromatic Prods Inc, 15 E 30 St, N Y	Murray Hill 4-7875
Baker Caster Oil Co, 119 Bway, N Y	Digby 9-0500
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dow Chem Co, Midland, Mich	Midland 500

highest quality
perfume bases
More than 151 years of Progress and Experience
D.O
DODGE & OLCOTT, INC.
180 Varick Street • New York 14, N. Y.
ESSENTIAL OILS • AROMATIC CHEMICALS
PERFUME BASES • VANILLA • FLAVOR BASES

Perfume Materials and Aromatic Specialties

FIRMENICH & CO.
250 W. 18th ST., NEW YORK 11, N.Y.
CHICAGO OFFICE: 612 NORTH MICHIGAN AVENUE
IN CANADA: CARAMEED, LTD., 350 WALLACE AVENUE, TORONTO
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SUCCESSEURS DE
CHUIT, NAEF & CIE.
GENEVE SUISSE

DEPENDABLE
Perfume Bases
of constant QUALITY
ECONOMICALLY produced

In Verona products you will find the proper equation of economy : quality. Verona's wide range of aromatics and continuing research development are at the command of the perfumer to create the results he desires.

Look to Verona for the *purest* in Aromatic Chemicals. Write for a list of products from our Research Laboratories.

VERONA
VERONA CHEMICAL COMPANY
76 VERONA AVENUE, NEWARK 4, NEW JERSEY

*See ad in Catalog Section

Since 1885 Blenders of Fine

PERFUME BASES

and Perfumers' Materials for Colognes, Soaps and Cosmetics

Branches in: Chicago, San Francisco, Montreal
Representatives in: Philadelphia, Waukesha, Wisc.
Los Angeles - Toronto - Winnipeg

George Lueders & Company
427-429 Washington Street
New York 13, N. Y.

PERFUME BASES (cont'd)

Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Firmenich & Co, 250 W 18 St, N Y	Watkins 9-5220
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110

DEPENDABLE PRODUCTS SINCE 1871

PERFUME BASES and ODOR MODIFIERS for EXTRACTS, SOAPS and COSMETICS

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FRITZSCHE *Brothers, Inc.* Est. 1871

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Tombarel

BASIC PERFUME MATERIALS
PERFUME COMPOUNDS
SPECIAL PERFUME CREATIONS
FOR ALL PURPOSES

TOMBAREL
PRODUCTS CORPORATION
NEW YORK

Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530
Van Ameringen-Haebler Inc, 521 W 57 St, N Y	Circle 6-2700
Verona Chem Co, 26 Verona Av, Newark, N J	Humboldt 3-3200

Bush Aromatics Inc, N Y	Lautier Fils Inc, N Y
Chaleyer, Ph, Inc, N Y	Maschmeijer, Jr, A, Inc, N Y
Evergreen Chem Co, Inc, N Y	Naugatuck Aromatics Div, N Y
Felton Chem Co, Inc, Bklyn, N Y	Ryland, H C, Inc, N Y
Gunning & Gunning, Inc, N Y	Seebach, Edwin, Co, N Y
Lanlig, E M, Co, Irvington, N J	Sherwood Refg Co, Inc, Englewood, N J

Perfume MATERIALS

Raw materials
Perfumers' Specialties
Finished Oils

for every perfuming need

VAN AMERINGEN-HAEBLER, INC.
521 WEST 57TH STREET, NEW YORK 19, N. Y.

GIVAUDAN

provides you with a reliable source of supply for

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★See ad in Catalog Section



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If you have a product, or plan a product, let Norda help you make it better. Norda knows what *you* need in Perfume Bases . . . for a good many years, has made good scents pay off. Call on us often . . . call on us now . . . write today . . . right away . . . for free samples, new catalogue.

Norda ESSENTIAL OIL AND CHEMICAL COMPANY, INC.
601 West 26th Street, New York 1, N. Y.

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P. R. DREYER, INC.
113 West 19th Street
New York 11, N. Y.

WRITE FOR SAMPLES AND PRICES
CATALOGS ON REQUEST

PERFUMES, DISINFECTANTS

Special aromatic chemicals and essential oils added to disinfectants to improve the odor. See also Deodorants (various).

Aromatic Prods Inc, 15 E 30 St, N Y	Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y	Watkins 9-4100
Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Seeley & Co, Inc, 136 Liberty St, N Y	Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530

Bush Aromatics Inc, N Y
Chaleyer, Ph, Inc, N Y
Evergreen Chem Co, Inc, N Y
Felton Chem Co, Inc, Bklyn, N Y
Gunning & Gunning, Inc, N Y
Naugatuck Aromatics Div, N Y
N Y Aromatics Corp, N Y
Ryland, H C, Inc, N Y

PERFUMES, FLY-SPRAY

Products which mask the unpleasant odor of kerosene bases in insecticide sprays.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Aromatic Prods Inc, 15 E 30 St, N Y	Murray Hill 4-7875
Chem Insecticide Corp, 57 13 St, Bklyn, N Y	South 8-7141
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St	Watkins 9-1570
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y	Talmadge 8-6000
Givaudan-Delawanna, Inc, 330 W 42 St, N Y	Lackawanna 4-6500
Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Lueders, Geo, & Co, 427 Washington St, N Y	Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y	Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y	Watkins 4-7878
Tombarel Prods Corp, 12 E 22 St, N Y	Gramercy 7-4530

Bush Aromatics Inc, N Y
Evergreen Chem Co, Inc, N Y
Felton Chem Co, Inc, Bklyn, N Y
Gunning & Gunning, Inc, N Y
Naugatuck Aromatics Div, N Y
N Y Aromatics Corp, N Y
Ryland, H C, Inc, N Y



Headquarters
FOR
PERFUME MATERIALS
AND
AROMATIC CHEMICALS

AROMATIC PRODUCTS, INC.
15 EAST 30 STREET, NEW YORK 16, N. Y.

PERFUMES, INSECTICIDE

Special aromatic chemicals and essential oils placed in household insecticides to disguise disagreeable odors and/or add a more pleasing smell. See also Perfumes, Fly-Spray; also Deodorants (various).

Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Aromatic Prods Inc, 15 E 30 St, N Y	Murray Hill 4-7875
Chem Insecticide Corp, 57 13 St, Bklyn, N Y	South 8-7141
Dodge & Olcott, Inc, 180 Varick St, N Y	Watkins 4-3600

Insecticide PERFUMES



Odor masks and perfumes individually designed for your particular product.

VAN AMERINGEN-HAEBLER, INC.
521 WEST 57TH STREET, NEW YORK 19, N. Y.

★See ad in Catalog Section

PERFUMES, INSECTICIDES (cont'd)

Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Van Ameringen-Haebler Inc, 521 W 57 St, N Y — Circle 6-2700

Bush Aromatics Inc, N Y
Evergreen Chem Co, Inc, N Y
Felton Chem Co, Inc, Bklyn, N Y
Gunning & Gunning, Inc, N Y
Naugatuck Aromatics Div, N Y

PERFUMES, PAINTS

Preparations added to paints to disguise the odor of fresh paint and adding a distinct selling appeal to products so treated. **See also Deodorants, Paints.**

Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750

Bush Aromatics Inc, N Y
Felton Chem Co, Inc, Bklyn, N Y
Naugatuck Aromatics Div, N Y

PERFUMES, RUBBER

Products incorporated in rubber goods designed for consumer use to eliminate the characteristic odor of new rubber and adding instead a pleasing smell that assists consumer appeal.

Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750
Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864

Bush Aromatics Inc, N Y
Felton Chem Co, Inc, Bklyn, N Y
Naugatuck Aromatics Div, N Y

PERFUMES, SANITARY-BLOCK

Essential oils and synthetic aromatic chemicals which impart to paradichlorbenzene a pleasing odor that will remain as long as the crystals themselves.

Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878

Bush Aromatics Inc, N Y
Evergreen Chem Co, Inc, N Y
Felton Chem Co, Inc, Bklyn, N Y
Laning, E M, Co, Irvington, N J
Naugatuck Aromatics Div, N Y
N Y Aromatics Corp, N Y
Ryland, H C, Inc, N Y

PERFUMES, SOAP

Perfumes used to mask the distinctive odor of fats, and also to give a pleasing smell. Every soap, even the cheapest type of laundry soap, is perfumed. Important factors in soap perfumes are: first, cost, and second, the evaporation of perfumes so that high boiling point essential oils or synthetic aromatics, especially in soaps where the perfume is added to the soap mass while it is still molten must be used. Where the perfume of essential oils would disappear on account of their low boiling point, the use of high boiling point synthetics retains the desired perfume odor. The perfumes must not discolor the soap.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Firmenich & Co, 250 W 18 St, N Y — Watkins 9-5220
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Norda Essential Oil & Chem Co, Inc, 601 W 26 St, N Y — Watkins 4-7878
Seeley & Co, Inc, 136 Liberty St, N Y — Rector 2-1140
Tombarel Prods Corp, 12 E 22 St, N Y — Gramercy 7-4530

Bush Aromatics Inc, N Y
Chalegyr, Ph, Inc, N Y
Evergreen Chem Co, Inc, N Y
Felton Chem Co, Inc, Bklyn, N Y
Gunning & Gunning, Inc, N Y
Laning, E M, Co, Irvington, N J
Lautier Fils Inc, N Y
Naugatuck Aromatics Div, N Y
N Y Aromatics Corp, N Y

PERFUMES, TEXTILE

Products used to treat silk, wool, rayon, cotton, and other fabrics to impart a more pleasing smell and to increase consumer appeal through the olfactory sense.

Aromatic Prods Inc, 15 E 30 St, N Y — Murray Hill 4-7875
Dodge & Olcott, Inc, 180 Varick St, N Y — Watkins 4-3600
Dreyer, P R, Inc, 113 W 19 St — Watkins 9-1570
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750

Bush Aromatics Inc, N Y
Felton Chem Co, Inc, Bklyn, N Y
Naugatuck Aromatics Div, N Y

PICKLING AGENTS

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Cornwell Chem Corp, Cornwells Hgts, Pa — Cornwells 0302
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nepco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

Amer Chem Paint Co, Ambler, Pa
Enthone, Inc, New Haven, Conn
Neilson Chem Co, Detroit, Mich

PITCH, BATTERY

Pitch with good bonding qualities, dielectric properties, acid-proof, and not brittle at low temperatures, is used in storage battery manufacture. **See also Sealers, Storage, Battery.**

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Dohls & Stein, Inc, Newark, N J

PITCH, BREWERS'

Special type of high grade pitches, used to coat the inside of beer kegs and storage tanks, both wood and steel; must not be affected chemically by the beer; should not impart any taste or odor.

Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

PITCH, BRIQUETTE

Coal-tar pitch, softening point about 75 to 85° C., Ring and Ball, used as a binder in making coal briquettes

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chematar Inc, 40 Exchange Pl, N Y — Hanover 2-0364
Pope, Chas, & Co, Inc, 50 E 42 St, N Y — Vanderbilt 6-0903
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

PITCH, BRUSHMAKERS

National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473

PITCH, CAULKING

National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473

PITCH, CONDUIT

A coal-tar or water gas-tar pitch of special properties, prepared under carefully controlled conditions, for the impregnation of pulp or fibre tubes in the manufacture of fibre conduit. Softening point about 150°-170°F., cube-in-water method.

Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

PITCH, CORE

A powdered, hard, coal-tar pitch used in the production of foundry cores. Softening point about 285°-310°F., cube-in-air method.

Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

PITCH, GREASE-MAKERS'

A soft coal-tar pitch or heavy coal-tar used in compounding greases for heavy pinions and roll-neck bearings. Properties depend upon grease-makers formulae which may include rosin and pine-oil.

Darling & Co, 4204 S Ashland Av, Chicago, Ill — Yards 7-3000
National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-6383

Mobile Rosin Oil Co, Mobile, Ala

PITCH, INSULATING

Definition will depend upon the uses in mind. Waterproofing and dampproofing pitches are some times referred to as insulating pitch. Some pitches are sold for use in electrical insulation compounds and in compounds for sealing dry batteries. Properties vary with intended use.

Darling & Co, 4204 S Ashland Av, Chicago, Ill — Yards 7-3000
National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600

PITCH, INSULATING (cont'd)

Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

PITCH, OPTICIANS

National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Mobile Rosin Oil Co, Mobile, Ala — Shields Buying Service, N Y
Pomeroy, I, Co, Newark, N J

PITCH, ROOFING

A coal-tar pitch having characteristics suitable for use in built-up pitch and tarred felt roofs. Its softening point is from 140 to 150° F. by the Cube-in-Water Method. See A.S.T.M. Specifications D251-36T and D252-36T.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

PITCH, STEARINE

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Darling & Co, 4204 S Ashland Av, Chicago, Ill — Yards 7-3000
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
General Mills, Inc, Chem Div, 400 2 Av S, Minneapolis, Minn — Atlantic 1144
Grass, A, & Co, 295 Madison Av, N Y — Murray Hill 3-8250
Marcus-Ruth-Jerome Co, 327 S LaSalle St, Chicago, Ill — Harrison 7-1760
Ziegler, G S & Co, 233 Bway, N Y — Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

PITCH, WATERPROOFING

Coal-tar pitch suitable for use in damp-proofing as a mopping coat or in the construction of built-up membrane waterproofing systems along with tarred felt or fabric. For use below ground pitch with a softening point of 110-140° F., Cube-in-Water is recommended. See A.S.T.M. Specifications D201-36T, D200-36T, D145-36T and D43-36T.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Darling & Co, 4204 S Ashland Av, Chicago, Ill — Yards 7-3000
National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

PLANT HORMONES

Products which induce and stimulate rapid root growth. Do not take the place of fertilizer. Exact action is still not entirely understood, but the results are definitely visible.

Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
Dow Chem Co, Midland, Mich — Midland 300
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Millmaster Chem Co, 420 Lexington Av, N Y — Lexington 2-5959
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880

Amer Chem Paint Co, Ambler, Pa

a-NAPHTHALENEACETIC ACID
a-NAPHTHALENEACETAMIDE
SODIUM-a-NAPHTHALENE ACETATE
INDOLE BUTYRIC ACID
METHYL ESTER-a-NAPHTHALENE ACETIC ACID
BETA NAPHTHOXYACETIC ACID
SODIUM BETA NAPHTHOXYACETATE

Inquiries Invited for other Fine and Special Chemicals

MILLMASTER
CHEMICAL CORP.
420 LEXINGTON AVE., NEW YORK 17, N. Y.
Cable Address "Millmaster"

PLASTICIZERS, GLUE

Products which when added to glue tend to offset extreme hardness and brittleness, prevent undue shrinkage, maintain the finished product in a fluid state, and aid in its application by providing smooth-working properties.

Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Becco Sales Corp, Buffalo, N Y — Bedford 8300
Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610

★See ad in Catalog Section

PLASTICIZERS, GLUE (cont'd)

Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219

Colloids Inc, Newark, N J

PLASTICIZERS, LACQUER

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Becco Sales Corp, Buffalo, N Y — Bedford 8300
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Brooks, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Buffalo Electro-Chem Co, Inc, Buffalo, N Y — Bedford 8300
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
★Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600

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Nitrocellulose • Ethyl Cellulose • Cellulose Acetate • Cellulose Acetobutyrate • Cellulose Acetopropionate • Urea-Formaldehyde Resins • Vinyl Resins • Synthetic Rubber • Shellac and other spirit-soluble resins
COMMERCIAL SOLVENTS *Corporation*
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Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hardesty Chem Co, Inc, 41 E 42 St, N Y — Murray Hill 2-6270
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Ohio-Apex Inc, Nitro, W Va — Nitro 152
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
★Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760

Deery Prods Co, Cambridge, Mass — Kepec Chem Corp, Milwaukee, Wis

PLASTICIZERS, RESIN

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222

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PLASTICIZERS, RESIN (cont'd)

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Becco Sales Corp, Buffalo, N Y	Bedford 8300
Buffalo Electro-Chem Co, Inc, Buffalo, N Y	Bedford 8300
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
★Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
Dow Chem Co, Midland, Mich	Midland 500
Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O	Dunbar 5700
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Hardesty Chem Co, Inc, 41 E 42 St, N Y	Murray Hill 2-6270

PLASTICIZERS, RESIN (cont'd)

Hercules Powder Co, 978 Market St, Wilmington, Del	
Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
★Monsanto Chem Co, Rubber Service Dept, 920 Brown St, Akron, O	Circle 7-4473
National Resin Oil Prods, Inc, 1270 6 Av, N Y	Federal 1-4200
Neville Co, 190 Neville Island, Pittsburgh, Pa	Nitro 152
Ohio-Apex Inc, Nitro, W Va	Lexington 2-4322
Pan Amer Refg Corp, 122 E 42 St, N Y	

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Hydrocarbon plasticizers recommended for vinyl copolymer resins and synthetic rubber especially butadiene-acrylonitrile type.

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122 East 42nd Street New York 17, N. Y.

Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Stahl Finish Co, 23 Caller St, Peabody, Mass	Peabody 371
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y	Lexington 2-5806
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
★Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957
U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

MONSANTO PLASTICIZERS AT A GLANCE!

MONSANTO PLASTICIZERS For Use With Various Resins and Plastics	Shellac	Zein	Polyamide Resins	Urea-Formaldehyde Resin	Melamine-Formaldehyde Resin	Phenol-Formaldehyde Resin	Polyvinyl Acetate	Polyvinyl Butyral	Polyvinyl Formal	Polyvinyl Chloride	Polyvinyl Chloride Acetate	Polystyrene	Buna-N	Chlorinated Rubber	Ethyl Cellulose	Cellulose Acetobutyrate	Cellulose Acetopropionate	Cellulose Acetate	Cellulose Nitrate	Santolite® Resins
Tricresyl Phosphate						X	X	X	X	X	X	X	X		X	X	X		X	X
Triphenyl Phosphate							X		X						X	X	X	X	X	-
Santicizer® 1-H			X			X	X							X		X	X	X	X	
Santicizer 3	X	X	X				X		X			X			X	X	X	X		X
Santicizer 8	X	X	X				X	X	X			X			X	X	X	X	X	X
Santicizer 9	X	X	X	X	X	X	X								X	X			X	X
Santicizer 8-16	X	X		X	X		X	X		X	X	X	X	X	X	X	X		X	X
Santicizer E-15	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X
Santicizer M-17	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Santicizer 107								X		X	X		X	X	X	X	X		X	X
Santicizer 140							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Santicizer 141		X					X	X	X	X	X		X	X	X	X	X	X	X	X
Santicizer 160							X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dibutyl Phthalate	X					X	X	X		X	X	X	X	X	X	X	X		X	X
Diethyl Phthalate	X								X						X	X	X	X		X
Dimethyl Phthalate															X	X	X	X		
Diphenyl Phthalate							X					X			X				X	
Ortho-Nitrobiphenyl	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aroclors®							X	X		X	X	X	X	X	X	X	X		X	X
HB-40							X	X		X	X	X			X					

X denotes — of use X denotes — of special value

These are the principal plasticizers supplied by Monsanto so arranged that you can compare their relative usefulness for your purposes at a glance. For full details, write for the booklet, "Monsanto Plasticizers." MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, St. Louis 4, Missouri.

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★See ad in Catalog Section

PLASTICIZERS, RESIN (cont'd)

Argus Chem Lab Inc, Bklyn, N Y
Colloids Inc, Newark, N J
Decey Prods Co, Cambridge, Mass
Goodrich, B F, Chem Co, Cleveland, O
Kepec Chem Corp, Milwaukee, Wis
Specialty Resins Co, Lynwood, Calif

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NATURAL RUBBER
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ADVANCE SOLVENTS & CHEMICAL CORP.
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PLASTICIZERS, RUBBER

See also Softeners, Rubber.

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Amer-British Chem Supplies Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Becco Sales Corp, Buffalo, N Y	Bedford 8300
Binney & Smith Co, 41 E 42 St, N Y	Murray Hill 2-1960
Buffalo Electro-Chem Co, Inc, Buffalo, N Y	Bedford 8300
Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass	Liberty 2-1870
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Drew, E F, & Co Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175

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PICCOCIZERS
PLASTICIZER SC
PLASTONE
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PARA RESINS
PARA FLUX 2016

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PLASTICIZERS, RUBBER (cont'd)

Hardesty Chem Co, Inc, 41 E 42 St, N Y	Murray Hill 2-6270
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Hercules Powder Co, 978 Market St, Wilmington, Del	
Indoil Chem Co, 910 S Michigan Av, Chicago, Ill	Harrison 7-9200
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kay-Fries Chems, Inc, 180 Madison Av, N Y	Murray Hill 6-0661
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
★Monsanto Chem Co, Rubber Service Dept, 920 Brown St, Akron, O	
Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200

Witco M R's
(Hard Hydrocarbon)

Witco M.R.'s are manufactured in two grades:

Grades:	No. 38	Black Diamond
Melting Point:	300-320°F	325-340°F

These extending plasticizers, widely used in rubber compounding, increase the tensile strength and tear resistance of cured stocks especially GR-S, and also increase working qualities of the compound, thus improving pigment dispersion.

WITCO CHEMICAL COMPANY
295 MADISON AVENUE · NEW YORK 17, NEW YORK
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LONDON AND MANCHESTER, ENGLAND

Ohio-Apex Inc, Nitro, W Va	Nitro 152
Oronite Chem Co, 38 Sansome St, San Fran, Calif	Exbrook 2-0923
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y	Lexington 2-5806
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
★Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Decey Prods Co, Cambridge, Mass	Irvington Varnish & Insulator Co, Irvington, N J

PLASTICIZERS, STARCH

Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
Becco Sales Corp, Buffalo, N Y	Bedford 8300
Buffalo Electro-Chem Co, Inc, Buffalo, N Y	Bedford 8300
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Michel, M, & Co, Inc, 90 Broad St, N Y	Digby 4-3878
Morningstar Nicol, Inc, 630 W 51 St, N Y	Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

PLASTICS

★Celanese Corp of Amer, Plastics Div, 180 Madison Av, N Y	Murray Hill 9-6000
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa	Atlantic 1-6240
★Monsanto Chem Co, Plastics Div, Springfield, Mass	Springfield 8371
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-5860
Amer Molding Powder & Chem Corp, Bklyn, N Y	Goodrich, B F, Chem Co, Cleveland, O
Bamberger, A, Corp, Bklyn, N Y	Richardson Co, Melrose Park, Ill
	Taylor Fibre Co, Norristown, Pa

★See ad in Catalog Section

PLASTICS, ACRYLIC

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Peters Chem Mfg Co, 3623 Lake St, Melrose Park, Ill — Melrose Park 643
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9660

Bamberger, A, Corp, Bklyn, N Y
Blum, Paul, Co, Buffalo, N Y

PLASTICS, ALCOHOL RESISTANT

Special types of plastics finding wide application for molding various articles which are likely to come in contact with alcohol, such as coasters, etc.

Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243

Richardson Co, Melrose Park, Ill

PLASTICS, CASEIN

Plastics produced from casein, a product of cow's milk, and one of the first plastics commercially available; is pressed into sheet, tube, and rod form and then cured in a formaldehyde solution, dried, and straightened. Finished product can be sawed, ground, cut, turned, carved, etc., and is available in a large range of opaque, translucent, and mottled color effects.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201

PLASTICS, CELLULOSE ACETATE

Basic characteristics: burn merely like hard rubber, wood, etc., in contrast to nitrocellulose plastics; resistance to impact; excellent coloring effects; high dielectric strength; low heat conductivity; adaptable to remolding, due to the fact that they are thermoplastic, etc. They lack high heat resistance for the same reason.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Celanese Corp of Amer, Plastics Div, 180 Madison Av, N Y — Murray Hill 9-6000
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
★Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

Amer Molding Powder & Chem Corp, Bklyn, N Y
Bamberger, A, Corp, Bklyn, N Y
Blum, Paul, Co, Buffalo, N Y

Amer Prods Mfg Co, New Orleans, La

PLASTICS, CELLULOSE ACETATE BUTYRATE

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
★Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

Bamberger, A, Corp, Bklyn, N Y

PLASTICS, ETHYL CELLULOSE

Synthetic products made with ethyl cellulose as a base, which can be easily molded by compression or injection methods: possess great toughness at low temperatures, unaffected by alkalies and dilute acids, extremely light in weight, and can be made entirely non-inflammable by the use of certain chlorinated and phosphate plasticizers; are light-proof and can be used for delicate pastel shades.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Dow Chem Co, Midland, Mich — Midland 500

Bamberger, A, Corp, Bklyn, N Y
Blum, Paul, Co, Buffalo, N Y

PLASTICS, LAMINATED

Paper or fibre sheets, wood or plywood, impregnated with specially prepared synthetic resins, one built upon the other and bonded together so that any desired thickness can be supplied depending upon the application or use. Find special use in mechanical fields for various types of pinions, gears, wearing rings, plates, etc., in the electrical field, in the textile and synthetic cloth industries, in the decorative and construction field, etc. Standard specifications have been drawn up by the Laminated Plastic Products Group, National Electrical Manufacturers' Association, Publication No. 34-26, June, 1934.

Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121

Farley & Loetscher Mfg Co, Dubuque, Iowa
Panelyte Div, N Y
Richardson Co, Melrose Park, Ill
Spaulding Fibre Co, Inc, Tonawanda, N Y
Synthane Corp, Oaks, Pa
Taylor Fibre Co, Norristown, Pa

PLASTICS, MELAMINE

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
★Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371

Panelyte Div, N Y
Plaskon Div, Toledo, O
Richardson Co, Melrose Park, Ill
Spaulding Fibre Co, Inc, Tonawanda, N Y
Synthane Corp, Oaks, Pa
Taylor Fibre Co, Norristown, Pa

PLASTICS, PHENOLIC

Synthetic resins produced from the reaction of phenol and formaldehyde, used in paints, lacquers, etc., for molding and casting.

Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1660
★Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

DUREZ . . .

Plastics and Resins That Fit the Job

Phenolic molding compounds of all types: general-purpose, impact, electrical-resistant, heat-resistant, non-bleeding, special purpose. Phenolic resins for laminating, insulating, impregnating paper, fabric and wood; for adhesives, coatings, emulsions, casting. Water-soluble resins. Oil-soluble resins for paints, lacquers, varnishes, printing inks, waxes.

DUREZ PLASTICS & CHEMICALS, INC.
5 WALCK ROAD, NORTH TONAWANDA, NEW YORK

PLASTICS, PHENOLIC (cont'd)

France, Campbell & Darling, Inc, Kenilworth, N J
Ironsides Co, Columbus, O
Irvington Varnish & Insulator Co, Irvington, N J
Marblette Corp, Long Is City, N Y
Panelyte Div, N Y
Richardson Co, Melrose Park, Ill
Spaulding Fibre Co, Inc, Tonawanda, N Y
Synthane Corp, Oaks, Pa
Taylor Fibre Co, Norristown, Pa

PLASTICS

Plyophen phenolic resins . . . for bonding, laminating and impregnating purposes.

REICHHOLD CHEMICALS, INC.
DETROIT, MICHIGAN

Brooklyn, N. Y. — Elizabeth, N. J.
Tuscaloosa, Ala. — Seattle, Wash.
So. San Francisco, Calif.

PLASTICS, PYROXYLIN

Synthetic plastics, made with cellulose nitrate base, available to fabricators in the form of sheets, rods, tubes of various dimensions and rolls (continuous lengths). True thermoplastics, they soften when heated and set up upon cooling, readily fashioned by molding, bending, and machining for wide variety of forms and purposes.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121

Blum, Paul, Co, Buffalo, N Y

PLASTICS, RUBBER

Molding powders produced from rubber, usually requiring no vulcanization.

Asphalt Emulsion Service Inc, N Y
Boruski, Jr, E F, N Y
Richardson Co, Melrose Park, Ill

PLASTICS, TRANSPARENT MOLDING

Synthetic materials possessing rich depth of color and transparency when molded and used for such applications as automobile tail and dome light lenses, elevator signal indicators, traffic light signals, instrument housings, transparent containers, furniture drawer pulls, knobs and handles, gauge glasses, electric appliances, lamp shades, refrigerator door handles, buttons, chemical graduates, novelty items, etc.

Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121

Richardson Co, Melrose Park, Ill

PLASTICS, UREA

Powders and granules produced from urea, cellulose and formaldehyde which mold under heat and pressure, distinguished by light, bright shades and used commonly for buttons, tableware, ornaments, etc.

Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970

PLASTICS, UREA (cont'd)

Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Plaskon Div, Toledo, O — Richardson Co, Melrose Park, Ill

PLASTICS, VINYL FORMAL

★Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243
Boruski, Jr, E F, N Y — Goodrich, B F, Chem Co, Cleveland, O

POLISH, BRASS

Colonial Chem Co, Seattle, Wash
Dryburgh & Sons, Inc, Milwaukee, Wis
Imperial Prods Co, Phila, Pa
Kocour Co, Chicago, Ill
Nu Steel Co, Chicago, Ill
Pingo Co, Boston, Mass
Solshine Mfg Co, Fall River, Mass

POLISH, FLOOR

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121

Buckingham Wax Co, Long Is City, N Y
Crescent Chem Corp, Perth Amboy, N J
Pingo Co, Boston, Mass
U S Sanitary Specialties Corp, Chicago, Ill
Windsor Wax Co, Inc, Hoboken, N J

POLISH, FURNITURE

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

Buckingham Wax Co, Long Is City, N Y
Colonial Chem Co, Seattle, Wash
Dryburgh & Sons, Inc, Milwaukee, Wis
Elkay Prods Co, N Y
General Cement Mfg Co, Rockford, Ill
Grand Rapids Wood Finishing Co, Grand Rapids, Mich
Imperial Prods Co, Phila, Pa
Nu Steel Co, Chicago, Ill
Solshine Mfg Co, Fall River, Mass
Thompson Chem Co, Pawtucket, R I
Uncle Sam Chem Co, Inc, N Y
U S Sanitary Specialties Corp, Chicago, Ill

POLISH, GLASS

Lindsay Light & Chem Co, W Chicago, Ill — W Chicago 760
Thompson Chem Co, Pawtucket, R I — Uncle Sam Chem Co, Inc, N Y

POLISH, METAL

Buckingham Wax Co, Long Is City, N Y
Chem Supply Co, Cleveland, O
Colonial Chem Co, Seattle, Wash
Dryburgh & Sons, Inc, Milwaukee, Wis
Hollingshead, R M, Corp, Camden, N J
Imperial Prods Co, Phila, Pa
Kocour Co, Chicago, Ill
Nu Steel Co, Chicago, Ill
Pingo Co, Boston, Mass
Solshine Mfg Co, Fall River, Mass
Uncle Sam Chem Co, Inc, N Y
U S Sanitary Specialties Corp, Chicago, Ill

POLISH, SILVER

Colonial Chem Co, Seattle, Wash
Imperial Prods Co, Phila, Pa
Linick Chem Co, Chicago, Ill
Nu Steel Co, Chicago, Ill
Pingo Co, Boston, Mass
Williams Chem Corp, Miami, Fla

POLISHES FOR PAINTS, LACQUERS

Preparations for cleaning, polishing and conditioning paint, varnish, enamel, and lacquer surfaces, for removing dirt, grease, bluish scum, cloudiness, surface stains, scratches and bruises; to provide a protective film to the surface.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
K & L Chem Co, Chicago, Ill
Park Chem Co, Detroit, Mich
Wolverine Finishes Corp, Grand Rapids, Mich

POLYMERS, METHACRYLIC ESTER

Polymers are clear, stable, transparent, thermoplastic resins. Sp. grs. from ca. 0.89-0.92. Viscosities fall within specified ranges. Uses—for coating fabrics and paper, incl. hot melt coating; mfg. paints, varnishes, lacquers, enamels, etc.; adhesives, incl. hot melt.

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Bamberger, A, Corp, Bklyn, N Y — Carlton Chem Co, Inc, N Y

POLYVINYL ACETATE EMULSION

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer-British Chem Supplies Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Amer Resinous Chems Corp, 105 Foster St, Peabody, Mass — Peabody 2222
Arnold Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Casein Sales, 601-619 W 80 St, Chicago, Ill — Vincennes 6-7300
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243
Arabol Mfg Co, N Y — Hukill Chem Corp, Cleveland, O
Dewey & Almy Chem Co, Cambridge, Mass — Slomons Labs Inc, Long Is City, N Y

POUR-POINT DEPRESSANTS

Preparations blended with lubricating oils which impart to the latter the ability to flow freely in winter and at low temperatures. It is claimed that the use of such products eliminates the necessity of dewaxing, permits the maintenance of a high viscosity index which in turn means lower consumption, easier starting, and less wear; also maintains high natural resistance to oxidation.

POUR-POINT DEPRESSANTS (cont'd)

Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310
Tretolite Co, St Louis, Mo

PRESERVATIVES, BELT

Cuprinol Div, Darworth, Inc, Simsbury, Conn — Simsbury 42
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Kay & Ess Co, Dayton, O — Whitmoyer Labs, Inc, Myerstown, Pa

PRESERVATIVES, BRICK, CEMENT, CONCRETE

Protective coatings of varying formulation used to increase the imperviousness of brick, etc., against the elements. Should offer higher degree of protection against water, acids, alkalies, fumes, etc.

Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Master Builders Co, Cleveland, O — Sullivan Co, Memphis, Tenn
Sika Chem Corp, Passaic, N J

PRESERVATIVES, COSMETIC

Givaudan-Delawanna, Inc, 330 W 42 St, N Y — Lackawanna 4-6500
Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333

PRESERVATIVES, FABRIC

Specialized coating and impregnating materials for textiles (sheetings, canvas, etc.), to prevent mildew, to act as a water and oil repellent, to prevent deterioration of the fabric, etc.

Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Cuprinol Div, Darworth, Inc, Simsbury, Conn — Simsbury 42
Dow Chem Co, Midland, Mich — Midland 500
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750
Chemical Co, Detroit, Mich — Globe Paint Co, Inc, Bklyn, N Y
Gilbreath Chem Co, San Fran, Calif

PRESERVATIVES, FOOD

Substances added to foods, beverages, confectionery, ice-creams, etc., to prevent development of mold, bacteria, decay and rancidity, and to retain the natural color, flavor, odor, taste, appearance, and original food value. Such products must be harmless to human beings and

DOWICIDES

Trade DOW Mark

Germicides and Fungicides for all Industries

These products will afford positive protection against the destructive influences of mildew, mold and fungus growths, also putrefaction or decomposition due to bacterial action.

Manufactured by

THE DOW CHEMICAL COMPANY
of Midland, Michigan

Address All Inquiries to

CIBA CO., INC. NEW YORK
GREENWICH AND MORTON STREETS

Branches:
Boston
Providence
Philadelphia
Charlotte
Chicago
San Francisco

PRESERVATIVES, FOOD (cont'd)

animals in the quantities employed and are under the surveillance and jurisdiction of the Pure Food and Drug Administration of the Federal Government and also state and local Departments of Health.

Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Goldschmidt Chem Corp, 153 Waverly Pl, N Y	Chelsea 3-4792
Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2240
Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y	Evergreen 8-3800
Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
★Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957
Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333

Archem Corp, Crete, Nebr

PRESERVATIVES, GUM

Products added to natural gums to prevent the growth of mold, rancidity, etc.

Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Goldschmidt Chem Corp, 153 Waverly Pl, N Y	Chelsea 3-4792
Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Sindar Corp, 330 W 42 St, N Y	Longacre 4-8750

PRESERVATIVES, LEATHER

Preparations formulated to treat leather to retard the natural drying up of the oils and greases which provide the natural flexibility to the leather; to keep it from becoming hard and brittle and to correct such conditions in old leather by restoring such oils through penetration of the pores.

THE NUODEX *Fungicides*

A COMPLETE LINE OF PRESERVATIVE CONCENTRATES TO CONTROL MICROBIAL ATTACK IN

• WOOD • CORDAGE • TEXTILES • LEATHER • PROTECTIVE COATINGS

Provide your product with—

• IN-PROCESS PROTECTION • IN-USE PROTECTION • SALES PLUS FEATURES



For expert information on preservatives, consult Nuodex

NUODEX PRODUCTS CO., INC.

ELIZABETH, NEW JERSEY

Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Cuprinol Div, Darworth, Inc, Simsbury, Conn	Simsbury 42
Davison Chem Corp, 101 N Charles St, Baltimore, Md	Saratoga 3900
Dow Chem Co, Midland, Mich	Midland 500
Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2240
Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J	Elizabeth 3-2345
Sindar Corp, 330 W 42 St, N Y	Longacre 4-8750
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo	Laclede 2201

PRESERVATIVES, ROPE

Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Cuprinol Div, Darworth, Inc, Simsbury, Conn	Simsbury 42
Dow Chem Co, Midland, Mich	Midland 500
Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J	Elizabeth 3-2345
Sindar Corp, 330 W 42 St, N Y	Longacre 4-8750
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo	Laclede 2201
Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y	Hastings 5-3000
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

Cabot, Samuel, Inc, Boston, Mass — Globe Paint Co, Inc, Bklyn, N Y
Chemiseal Co, Detroit, Mich

PRESERVATIVES, WOOD

Chemicals and proprietary products used to retard disintegration of wood through the action of water, oil, acids, alkalies, insect and fungi attack, etc., to provide a protective coating. Wood floor preservatives prevent warping, splintering, cracking, rotting.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Chapman Chem Co, Dermen Bldg, Memphis, Tenn	37-8316
Cuprinol Div, Darworth, Inc, Simsbury, Conn	Simsbury 42
Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
★Monsanto Chem Co, Western Div, 911 Western Av, Seattle, Wash	Ma 4203
Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Nuodex Prods Co Inc, 830 Magnolia Av, Elizabeth, N J	Elizabeth 3-2345
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322

SANTOBRITE*

(Sodium Pentachlorophenate Technical)

Standard Forms: Powder; 1-oz. briquettes; pellets.

Characteristics: Light tan color; non-volatile; comparatively odorless; stable under ordinary atmospheric conditions when stored in a dry place. Soluble in various organic polar solvents. Stable, relatively unreactive but partial conversion to insoluble pentachlorophenol occurs at pH's below 6.8 and insoluble salts are formed by reaction with ions of copper, lead, mercury, zinc, iron and calcium. Non-corrosive to metals. Available as substantially neutral material containing from 0.5 to 0.9% free alkali and as a more alkaline product containing 3-4% alkali.

General Information: A water-soluble industrial preservative, fungicide, algaecide, and herbicide. Used for manufacture of termite-resistant cellulose insulating board and for control of micro-biological activity in paper, paperboard, leather, adhesives, latex and cold water paints; for control of sap stain in green lumber; for control of slime and algae in water systems where the water is not used for drinking or bathing; and in the manufacture of herbicide formulations.

SANTOPHEN* 20

(Pentachlorophenol Technical)

Characteristics: Dark grayish flakes; chlorophenolic odor; crystallizing point 174.0° C. min. Stable; relatively non-hygroscopic; insoluble in water but soluble in most organic solvents, fats, waxes, resins and asphalts. Boiling point is 293° C. at 760 m.m. Relatively inert chemically but reacts with strong alkalis to form water-soluble salts.

General Information: A water-insoluble industrial preservative and herbicide. Used as a moldproofing and termiteproofing agent for wood, cellulosic products, textiles, and as an active ingredient in herbicide formulations.

*Reg. U. S. Pat. Off.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY...WHICH SERVES MANKIND

CHAPMAN

WOOD PRESERVATIVES
AGRICULTURAL CHEMICALS

A Complete Line of Tested Chemicals for All Wood Preserving Problems • Sap Stain and Mold Control Chemicals • Weed Killers and Insecticides

PENTACHLOROPHENOL—crystals, for the preparation of wood preserving solutions. Efficient in protection of wood from decay and insect attack. Conform to specifications of U.S. Government and American Wood Preservers' Association.

DOWICIDE G—Sodium Pentachlorophenate; for protection against decay, mold and termite attack in fibreboard and insulating materials. Added to pulp during manufacture of the board.

PENTA PRESERVATIVE—for pressure and non-pressure treatment of lumber and wooden structures. A 5% pentachlorophenol solution in selected oil solvents. Controls decay; also termite and other insect attack.

Chapman Weed Killers and Agricultural Chemicals are Unsurpassed.

Insecticides for farm use.

Write for technical bulletins.

CHAPMAN CHEMICAL COMPANY
707 Dermor Building — Memphis 3, Tennessee



Pentachlorophenol solutions and concentrates for vacuum-pressure and open tank treatments against decay, termites, lyctus beetles, blue stain, checking, grain raising, and for dimensional control.

Send for detailed Specifications

WOOD TREATING Chemicals Co.
5137 Southwest Ave. St. Louis 10, Mo.

PRESERVATIVES, WOOD (cont'd)

Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y — Bowling Green 9-7600
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 3-6020
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201
Zinsser & Co, Inc, Railroad Av, Hastings-on-Hudson, N Y — Hastings 3-3000

Cooper's Creek Chem Corp, W Conshohocken, Pa
Amer Lumber & Treating Co, Chicago, Ill
Cabot, Samuel, Inc, Boston, Mass
Chemiseal Co, Detroit, Mich
Gilbreath Chem Co, San Fran, Calif
Globe Paint Co, Inc, Bklyn, N Y
Huggins, James, & Son, Malden, Mass
Interlake Iron Corp, Cleveland, O
Jordan Co, Chicago, Ill
Miller Prods Co, Portland, Ore
Tesco Chems Co, Atlanta, Ga

TENN-CREO
WOOD PRESERVER • DISINFECTANT • GERMICIDE

A proven preservative and destructive agent of wood-boring insects, flying ants (termites), and a preventative of fungi growth and bacterial decay.

Sold in 54-gallon drums and tank cars

Produced by TENNESSEE PRODUCTS & CHEMICAL Corporation

General Offices: Nashville 3, Tenn.
Eastern Sales Office: 350 Fifth Ave., New York 1, N. Y.

PRE-SPOTTERS (Dry-Cleaning)

Specialized soaps for removing stains which would be "set" by heat or not removed in the regular dry-cleaning operation. Stains most likely to become hard-set by heat may be grouped into three classifications: 1. Those which coagulate by heat, including many substances containing albumen such as blood, various foodstuffs, medicine, etc.; 2. Those which are oxidized by heat, including such substances as salad oil, cooking oil, and other unsaturated drying or semi-drying oils; 3. Those which become an integral part of the fibres when heated, including substances containing tannic acid, such as soft drinks, liquor, beer, some wines, fruit juices, grass and flower stains, tobacco, certain perfumes, coffee, tea, medicine, and photographic developing fluids.

Dee & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Dow Chem Co, Midland, Mich — Midland 500
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Lo 7-4650
Kohnstamm, H & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Takamine Lab, Inc, 193 Arlington Av, Clifton, N J — Prescott 9-4776

Leich, Charles, & Co, Evansville, Ind
Patek & Co, San Fran, Calif

PREVENTIVES, SLIME

Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hercules Powder Co, 978 Market St, Wilmington, Del
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Metalsalts Co, 200 Wagaraw Rd, Hawthorne, N J — Hawthorne 7-6000
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Pacific Coast Borax Co, 51 Madison Av, N Y — Lexington 2-5919
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750
Sterwin Chems, Inc, 1450 Bway, N Y

Natl Aluminate Corp, Chicago, Ill

PRIMERS, LACQUERS

Specially formulated products that fill the pores and microscopic imperfections of a surface providing a smooth, uniform base for the overcoat, and that act as a bond between finish and the article itself. Different types of primers are generally necessary for wood and metal.

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
N Y — Lexington 2-5806
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060

Alabastine Paint Prods, Chicago, Ill
Dolan, V J, & Co, Inc, Chicago, Ill
Egyptian Lacquer Mfg Co, Newark, N J
Lowe Bros Co, Dayton, O
Raffi & Swanson, Inc, Chelsea, Mass

PRIMERS, PAINT, METAL

Protection against corrosion is of paramount importance; primers for metal surfaces are very often formulated with 97% grade of red lead pigment for maximum durability.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222

★See ad in Catalog Section

PRIMERS, PAINT, METAL (cont'd)

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Bute, James, Co, Houston, Texas
Eagle Picher Co, Cincinnati, O
Ebony Paint Mfg Co, Kansas City, Mo
Hague, Alfred, & Co, Inc, Bklyn, N Y
Metalead Prods Corp, San Fran, Calif
Natl Lead Co, N Y

PRIMERS, PAINT, WOOD

A base seal and foundation coating which assists a bond between new wood and the finish coat; also provides a smooth surface to checked, spotted old wood surfaces before the addition of the final finish coat.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Bute, James, Co, Houston, Texas
Devere Co, Racine, Wis
Eagle Picher Co, Cincinnati, O
Natl Lead Co, N Y

PRIMERS, ROOFING

Preparations applied to new roofs and to old, weather-beaten, dried-out roof surfaces to seal any open pores or voids in the surface, and to act as a bonding agent between the roof and the finish coat or coats.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 3-6020

PRIVATE FORMULA WORK, Agricultural Specialties

Companies listed below manufacture for others under private labe' agricultural chemical specialties such as insecticides, fungicides, mixed fertilizers, etc.

Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473

Imperial Prods Co, Phila, Pa
Purocaine Inc, Hockessin, Del
Robins, G B, & Co, St Louis, Mo
White Rose Chem Co, Salem, Ore
World Spray Co, Inc, Los Angeles, Calif
Zellers Labs, Reading, Pa

PRIVATE FORMULA WORK, Cosmetic Specialties

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Lueders, Geo, & Co, 427 Washington St, N Y — Walker 5-4200
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Wellen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Gesell, R, Inc, N Y
Norco Prods Co, Phila, Pa
Rowe & Co, Norfolk, Va

PRIVATE FORMULA WORK, Household Specialties

Companies listed below manufacture for others under private label household specialties such as metal, furniture and shoe polishes, cleaners, soaps, drain-pipe solvent, fly-sprays, insecticides, disinfectants, floor polishes, household paints, enamels, etc.

Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

Barton Chem Co, Chicago, Ill
Bell Co Inc, Chicago, Ill
Burns, Allen Co, Buffalo, N Y
Imperial Prods Co, Phila, Pa
Nor-Ed Chem Co, Yorkshire, N Y
Rowe & Co, Norfolk, Va
Uncle Sam Chem Co, Inc, N Y
Windsor Wax Co, Inc, Hoboken, N J

PRIVATE FORMULA WORK, Industrial Specialties

Companies listed below manufacture for others under private label a wide variety of industrial specialties used in the textile, rubber glass, ceramic, paper and metal industries, also industrial paints, lubricants, greases, pastes, adhesives, etc.

Abrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Davies Nitrate Co Inc, 118 Liberty St, N Y — Rector 2-6095
Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
National Chem Co, 1516 Industrial St, Los Angeles, Calif — Trinity 4055
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wellen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Bell Co Inc, Chicago, Ill
Burns, Allen Co, Buffalo, N Y
Herbert Chem Co, Cincinnati, O
Neilson Chem Co, Detroit, Mich
Nelson Chems Corp, Detroit, Mich
Richardson Co, Melrose Park, Ill
Stewart Chem Prod Co, Longmont, Colo

PRIVATE FORMULA WORK, Medicinal Specialties

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
Bell Chem Co, 19 W 44 St, N Y — Murray Hill 7-9221
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
RSA Corp, 690 Sawmill River Rd, Ardsley, N Y — Dobbs Ferry 3-1818
Sumner Chem Co, Inc, 52 Wall St, N Y — Digby 4-3880

Gesell, R, Inc, N Y
Purocaine Inc, Hockessin, Del
Rowe & Co, Norfolk, Va

PRIVATE FORMULA WORK, Paints

Companies listed below are prepared to manufacture for others under private label paints, enamels, coatings, lacquers, finishes, varnishes, etc.

Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

PRIVATE FORMULA WORK, Soaps

Companies listed below are prepared to manufacture for others under private label household and industrial soaps, soap powders, liquid soaps, detergents, cleaners, etc.

Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Dorgen 4-1300
Fritzsche Brothers, Inc, 76 9 Av, N Y — Watkins 9-4100
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wellen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Cidex Corp, Jersey City, N J
Industrial Chem Prods Co, Phila, Pa
Western Soap & Sales Co, Spokane, Wash

PUTTY, ACID-RESISTANT

Specially formulated putty containing ingredients possessing resistance to action of acids and used in places where contamination is likely to occur and where ordinary putty would crumble and dust quickly. See also Glazing Compounds.

Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113

Armstrong Co, Detroit, Mich
Cellcote Co, Cleveland, O
Ever-Plastics Corp, N Y
Fort Pitt Chem Co, Pittsburgh, Pa
Landen Putty Wks, Malden, Mass
Pecora Paint Co, Inc, Phila, Pa

PYRETHRUM EXTRACTS

The essence of pyrethrum flowers ready to dilute with suitable oil bases to produce spray insecticides for industrial and household purposes. Usually supplied in various concentrations, from 4 to one up to 24 to one.

Bendix Chem Corp, 420 Lexington Av, N Y — Murray Hill 3-3202
Chem Mfg Co, Inc, 21 West St, N Y — Bowling Green 9-5360
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141

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522 Fifth Avenue, New York 18, N. Y.

PYRETHRIUM EXTRACTS (cont'd)

Panick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Powell, John, & Co Inc, 1 Park Av, N Y — Murray Hill 5-1770
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

McLaughlin Gormley King Co, Minneapolis, Minn

RANCIDITY PREVENTIVES (Oils)

Products which stabilize fats and oils, preventing rancidity by decreasing oxidative deterioration. Many patents have been issued claiming such properties for the following products—carotinoid pigments, lecithin, hydroxy-polybasic alipnatic acids, hydroquinone, furfural, unsaturated polybasic aliphatic acids, gum guaiac, oat flour, etc. Where used with edible oils products must have the approval of Food and Drug Administration officials.

Amer Lecithin Co, Inc, 57-01 32 Av, Woodside, N Y — Astoria 4-4350
Berk, F W, & Co, Inc, 420 Lexington Av, N Y — Lexington 2-5959
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Koppers Co Inc, Chem Div, Koppers Bldg, Pittsburgh, Pa — Atlantic 1-6240
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Rees & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750
★Tennessee Eastman Corp, 10 E 40 St, N Y — Murray Hill 3-5957

Bersworth Chem Co, Framingham, Mass — Ox Color Wks, N Y

Heyden PARASEPTS®
VERSATILE PRESERVATIVES
Neutral esters of parahydroxybenzoic acid with high preservative powers against mold and bacterial action—for creams, lotions, fats, oils, gums, glues, etc.
METHYL, ETHYL, PROPYL, BUTYL, and BENZYL PARASEPT.
Technical data on request.

PROPYL GALLATE
HIGHLY EFFECTIVE ANTIOXIDANT
A powerful stabilizer for edible oils, fats, ethers, emulsions, waxes, etc.
Technical data on request.

FINE HEYDEN CHEMICALS

HEYDEN CHEMICAL CORPORATION
393 SEVENTH AVE., NEW YORK 1, N.Y.
CHICAGO 6 · PHILADELPHIA 3 · SAN FRANCISCO 11 · DETROIT 1 · STAMFORD 16, CT.

REFRACTORIES

Specially formulated compounds employed in linings in coal, gas and oil fired furnaces; also for pouring baffles and special shapes; should have very low co-effecient of heat transfer.

Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Harshaw Chem Co, 1945 E 97 St, Cleveland, O — Cedar 1-6300
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
National Carbon Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
★Titanium Alloy Mfg Div, Nati Lead Co, 111 Bway, N Y — Barclay 7-0943

Anderson Stolz Corp, Kansas City, Mo
Bottfield Refractories Co, Phila, Pa
Brush Beryllium Co, Cleveland, O
Carborundum Co, Niagara Falls, N Y
Donald Sales & Mfg Co, Milwaukee, Wis
Foundry Services Inc, N Y
Green, A P, Fire Brick, Mexico, Mo
Ironton Fire Brick Co, Ironton, O
Keystone Refractories Co, N Y
N Amer Refractories Co, Cleveland, O
Pittsboro Jointless Firebrick Co, Chicago, Ill
Quigley Co, Inc, N Y
Standard Asbestos Mfg Co, Chicago, Ill
Stevens, Frederic B, Inc, Detroit, Mich
Taylor, Chas, Sons Co, Cincinnati, O
Walsh Refractories Corp, St Louis, Mo

REINFORCING AGENTS, RUBBER

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
General Magnesite & Magnesia Co, P O Box 672, Norristown, Pa — Plymouth Meeting 2880
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Dewey & Almy Chem Co, Cambridge, Mass

REMOVERS, CARBON, MOTOR

Products usually added to motor fuels to dissolve out deposited carbon in cylinders of gasoline-fired engines and which causes the familiar knock sound and reduces efficiency.

Dow Chem Co, Midland, Mich — Midland 500
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
National Chem Co, 1516 Industrial St, Los Angeles, Calif — Trinity 4055
Zaphar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Circo Prods Co, Cleveland, O
Crescent Chem Corp, Perth Amboy, N J
Crystal Soap & Chem Co, Inc, Phila, Pa
Dubois Co, Cincinnati, O
George Chem Co, Boston, Mass
Kelite Prods, Inc, Los Angeles, Calif
Lanair Chem Corp, Chicago, Ill
Spazier Soap & Chem Co, Santa Monica, Calif
Stewart Chem Prod Co, Longmont, Colo
Wasco Eng Corp, N Y
Wayne Soap Co, Detroit, Mich

REMOVERS, OIL AND GREASE

Specialized detergents used to remove oil and grease from various floor surfaces; also to remove oil and grease films from metal parts prior to finishing operations.

Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Dee & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Dow Chem Co, Midland, Mich — Midland 500
Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Pan Amer Refg Corp, 122 E 42 St, N Y — Lexington 2-4322
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
Wolfen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700

Circo Prods Co, Cleveland, O
Dacar Chem Prods Co, Pittsburgh, Pa
Dubois Co, Cincinnati, O
Penetone Co, Tenafly, N J
Spazier Soap & Chem Co, Santa Monica, Calif
Stewart Chem Prod Co, Longmont, Colo

REMOVERS, PAINT AND VARNISH

Dow Chem Co, Midland, Mich — Midland 500
Drew, E F, & Co Inc, 15 E 26 St N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Geris and Co, 8124 S Hoyne Av, Chicago, Ill — Triangle 4-6200
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8333
Wolfen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700

Chem Specialties Co, Los Angeles, Calif
Crescent Chem Corp, Perth Amboy, N J
Enthone, Inc, New Haven, Conn
Industrial Chem Co, Berkeley, Calif
Kelite Prods, Inc, Los Angeles, Calif
Nielco Chems, Detroit, Mich
Oakite Prods Inc, N Y
Ruehl Paint Co, Cincinnati, O
Spazier Soap & Chem Co, Santa Monica, Calif
Stewart Chem Prod Co, Longmont, Colo
Wocher, H M, & Son Co, Phila, Pa

REMOVERS, TEXTILE STAINS

Specially formulated compounds for the removal of stains in textile, leather, laundry, and dry-cleaning operations. Since stains are caused by many different products stain removers must be selected for each particular problem encountered. See also Acid Hydrofluoric, Sodium Hydrosulfite, Hydrogen Peroxide. See also Bleaches, Laundry.

Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Takamine Lab, Inc, 193 Arlington Av, Clifton, N J — Prescott 9-4776

REMOVERS, TEXTILE STAINS (cont'd)

Washing-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Wellen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Dixo Co, Garfield, N J — Titan Chem Prods Inc, Jersey City, N J

RESIN EMULSIONS

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860

NEVILLE

LX 685 RESIN

Oxidizing (heat reactive) petroleum resin used in manufacture of high quality floor and concrete paints, porch and deck enamels, metal primers, gasoline and grease-proof coatings, chassis blacks and fast drying aluminum paints at less cost.

THE NEVILLE COMPANY
PITTSBURGH · PA.

Hercules Powder Co, 978 Market St, Wilmington, Del
Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
★Monsanto Chem Co, Plastics Div, Springfield, Mass — Springfield 8371
National Casein Sales, 601-619 W 80 St, Chicago, Ill — Vincennes 6-7300
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Parsley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Standard Chem Prods Inc, 1501 Jefferson St, Hoboken, N J — Hoboken 3-1200

Arabol Mfg Co, N Y
Bryant Chem Corp, North Quincy, Mass
Dewey & Almy Chem Co, Cambridge, Mass
Findley, F G, Co, Milwaukee, Wis
General Latex & Chem Corp, Cambridge, Mass
Goodrich, B F, Chem Co, Cleveland, O
Hukill Chem Corp, Cleveland, O
Kepec Chem Corp, Milwaukee, Wis
Laurel Soap Mfg Co, Phila, Pa
Midland Glue Prods Co, Inc, Detroit, Mich
Nor-Ed Chem Co, Yorkshire, N Y
Scriptex Prods Co, Phila, Pa
Standard Paste & Glue Co, Inc, Chicago, Ill
Synthron Inc, Ashton, R I
Tamms Silica Co, Chicago, Ill
Union Bay State Co, Inc, Cambridge, Mass



Onyx Suggests...

XYNO RESINS

Water emulsions and solutions of synthetic thermoplastic resins for use in leather finishes, paper coatings, paints, cosmetics, opacifier in hair wave lotions, dispersant in insecticides, etc.

For Export: Onyx International Jersey City 2, N. J.

ONYX OIL & CHEMICAL COMPANY
JERSEY CITY 2, N. J.
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onyx CHEMICALS FOR INDUSTRY

RESIN FILM

Breetwor, I N, & Assocs, Los Angeles, Calif

RESIN, FURFURYL ALCOHOL

Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Irvington Varnish & Insulator Co, Irvington, N J

RESIN SOLUTION

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Acme Resin Corp, Forest Park, Ill — Pyroxylin Prods, Inc, Chicago, Ill

RESIN, VINYL ORGANISOL

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

RESIN, VINYL PLASTISOL

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Borunki, Jr, E F, N Y — General Latex & Chem Corp, Cambridge, Mass

RESINS, COATING

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer Cyanamid Co, Plastics & Resins Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Firstoline Corp, 420 Lexington Av, N Y — Murray Hill 3-3201
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Barclay Chem Co, Inc, 75 Varick St, N Y — Worth 4-5120
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Hercules Powder Co, 978 Market St, Wilmington, Del
Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371

U.S.I. THE COMPLETE RESIN LINE
for paint, varnish, lacquer, ink and allied coatings

*AROCHEM
Modified Phenolic and Other Condensates
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Urea-Formaldehyde Resins
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Pure Phenolics
Heat Reactives • Non Heat Reactives
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*Registered U. S. PATENT OFFICE
†Registered Trade Mark Pending

U. S. INDUSTRIAL CHEMICALS, INC.
Baltimore; Boston; Buffalo; Chicago; Cincinnati; Cleveland; Detroit; Kansas City, Mo.; Los Angeles; Louisville; New Orleans; New York; Philadelphia; Pittsburgh; San Francisco; St. Louis; Minneapolis

★See ad in Catalog Section

P-166 SYNTHETIC RESIN EMULSION FOR COATING PAPER

P-166 is a completely stable polymeric dispersion in water, free of volatile solvents.

P-166 is a new and superior emulsion for coating paper. Its many desirable qualities may be applied to a wide variety of papers. Constant laboratory research and experimentation have indicated that P-166 is a far superior emulsion. Write today for working sample and technical data.

PROPERTIES OF P-166
HIGH GLOSS
LIGHT FAST
WATERPROOFNESS
MAR-RESISTANT

P-166 may be applied by spray, roller or spread coating methods.

STAHL FINISH COMPANY
PEABODY, MASS. MONTREAL, CANADA

RESINS, COATING (cont'd)

U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
†Velsicol Corp, 330 E Grand Av, Chicago, Ill — Delaware 7-7383
Goodrich, B F, Chem Co, Cleveland, O — Plaskon Div, Toledo, O
Kepec Chem Corp, Milwaukee, Wis — Specialty Resins Co, Lynwood, Calif
Osborn, C J, Co, N Y

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REG. U.S. PAT. OFF.

SOLVENTS
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POLYVINYL ALCOHOL
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E. I. DU PONT DE NEMOURS & CO. (INC.)
ELECTROCHEMICALS DEPARTMENT
WILMINGTON 98, DELAWARE

RESINS, OIL-PROOF

Synthetic products with high resistance to the actions of gasoline, lubricating oils, kerosene, greases, etc., and used to formulate special oil-proof coatings.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Cromfield Prods Corp, Los Angeles, Calif

RESINS, PRINTING INK

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Hercules Powder Co, 978 Market St, Wilmington, Del
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Osborn, C J, Co, N Y

RESINS, VARNISH

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Andrews, W R E, Sales Inc, 1505 Race St, Phila, Pa — Rittenhouse 6-3874
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Hercules Powder Co, 978 Market St, Wilmington, Del
Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Pan Amer Refg Corp 122 E 42 St, N Y — Lexington 2-4322
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Wharry, G A, & Co, Inc, 95 Broad St, N Y — Whitehall 3-5760
Marblette Corp, Long Is City, N Y — Varcum Chem Corp, Niagara Falls, N Y

RESINS, WRINKLING

Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Innes, O G, Corp, 82 Wall St, N Y — Hanover 2-7450
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Osborn, C J, Co, N Y

RETARDANTS, DYE

Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Continental Chem Co, Passaic, N J — Marlowe-Van Loan Corp, High Point, N C
Leatex Chem Co, Phila, Pa

RETARDANTS, RUBBER

Materials introduced into uncured rubber which delay the cure in the early stages without affecting adversely the ultimate cure.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
★Monsanto Chem Co, Rubber Service Dept, 920 Brown St, Akron, O
Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y — Niagara Falls 2-207
Bosworth Chem Co, Framingham, Mass — Goodrich, B F, Chem Co, Cleveland, O

ROACH KILLERS

Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa — Atlantic 1-4545
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Rivardale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201
Calif Spray-Chem Corp, Richmond, Calif — Robbins, Geo B, Disinfectant Co, Inc, Cambridge, Mass
Carpenter, W D, Co, Inc, Syracuse, N Y
Elkay Prods Co, N Y — Windsor Wax Co, Inc, Hoboken, N J
Imperial Prods Co, Phila, Pa

ROAD SURFACING COMPOUNDS

Largely tars of varying specifications to meet peculiar problems of road surfacing and maintenance. Such factors as aggregate, weather, traffic volume, grade, drainage, etc., must be considered. Many states, counties, municipalities and the federal government have definite specifications. Reference should also be made to the various specifications of the A.S.T.M. relative to products of this type.

Abrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700
Asphalt Emulsion Service Inc, N Y

RODENTICIDES

Amer Cyanamid Co, Agric Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803

POWCO CHEMICALS

"KILLING POWER - that's the thing!"

ANTU
(ALPHA-NAPHTHYL THIOUREA)
For Control of
The Norway (Common Brown) Rat
Manufactured according to rigid chemical standards

JOHN POWELL & CO. INC.
ONE PARK AVE, NEW YORK 16, N.Y.

RODENTICIDES (cont'd)

★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Powell, John, & Co Inc, 1 Park Av, N Y	Murray Hill 5-1770
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Elkay Prods Co, N Y	Zellers Labs, Reading, Pa
Robbins, Geo B, Disinfectant Co, Inc, Cambridge, Mass	

ROOFING COMPOUNDS

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Carey, Philip, Mfg Co, Cincinnati, O	Valley 3000
Johns-Manville, 22 E 40 St, N Y	Lexington 2-7600
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif	Twinoaks 3-4600
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Crossfield Prods Corp, Los Angeles, Calif	Warren Refg & Chem Co, Cleveland, O
Ebony Paint Mfg Co, Kansas City, Mo	Wooster Sealkote Co, Wooster, O
Fort Pitt Chem Co, Pittsburgh, Pa	

RUBBER CHLORINATED

Hercules Powder Co, 978 Market St, Wilmington, Del

HERCULES

Chlorinated Compounds

Chlorinated rubber (Parlon*) for chemical resistant paints, for concrete, metal, wood. Chlorinated paraffin (Clorafin*).

*Reg. U. S. Pat. Off. GM50-3

HERCULES POWDER COMPANY INCORPORATED
Wilmington, Delaware

RUBBER COMPOUNDING MATERIALS

Wide variety of chemicals, dyes, fillers, accelerators, etc., used in the manufacture of rubber articles. Hundreds of different ingredients may be used, depending upon the article or the service requirements of the finished product. The composition determines the nature and properties of the rubber. See also Accelerators, Rubber; Anti-Oxidants, Rubber; Anti-Softeners, Rubber; Clay, Rubber-Makers'; Cleaners, Rubber; Colors, Rubber; Deodorants, Rubber; Dispersing Agents, Rubber; Dyes, Rubber; Fillers, Rubber; Lacquers, Rubber; Plasticizers, Rubber; Peptizing Agents (Rubber); Perfumes, Rubber; Pigments, Rubber; Retardants, Accelerator; Retardants, Rubber; Rubber, Chlorinated; Softeners, Rubber; Solvents, Rubber; Stiffeners, Rubber; Tear Resistors (Rubber).

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Binney & Smith Co, 41 E 42 St, N Y	Murray Hill 2-1960

COMPOUNDING MATERIALS for RUBBER

Tackifiers
Extenders
Plasticizers
Dispersing aids
Mold lubricants
Latex thickeners

Vistac
Vultamol
Advagum
Dibenzyl ether
Polybutenes

ADVANCE SOLVENTS & CHEMICAL CORP.

COMPOUNDING MATERIALS FOR RUBBER
NATURAL - RECLAIM - SYNTHETIC AND PLASTICS

Accelerator
Acid-Chromic
Alcohols
Blowing Agent
Cements—Rubber to Metal
Clay—Hard
Soft
Extra White
Water Fractionated
Colors—Masterbatch
Latex Pulp
Paste
Dry
Resinated
Crayons—For Rubber
Extenders—Rubber
Latex
Fatty Acids—Tallow
Vegetable Oil
Flock—All Colors
HSC 13
Magnesia—Heavy Oxide
Light Oxide
Carbonate
Metallic Soaps
Mineral Rubber
Mold Lubricants
Plasticizers—All Types
Plastone
Reclaiming Oils
Resinex
Resins—
Para Coumarone Indene
Hydrocarbon Terpene
Modified Styrene
Rubber Substitutes—
Vulcanized Vegetable Oils
Shell Flour
Shellac
Silene EF and L
Silvacon
Soap—Flake
Powdered
Solvents—Hisolv
Celanese
Stabelan—
Vinyl Stabilizers
Sulfur
Turpentine Products
Wetting Agents
Whitings—High Calcium
Low Calcium
Zinc Oxide

HARWICK STANDARD CHEMICAL CO.
AKRON, OHIO
BRANCHES: BOSTON, TRENTON, CHICAGO, LOS ANGELES

RUBBER COMPOUNDING MATERIALS (cont'd)

Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass	Liberty 2-1870
Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Composition Materials Co, Inc, 28 W 44 St, N Y	Bryant 9-5277
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
General Magnesite & Magnesia Co, P O Box 671, Norristown, Pa	Plymouth Meeting 2580
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Hercules Powder Co, 978 Market St, Wilmington, Del	
Indoil Chem Co, 910 S Michigan Av, Chicago, Ill	Harrison 7-9200

INDONEX
RUBBER COMPOUNDING MATERIALS
INDOIL CHEMICAL COMPANY
INDOIL CHEMICAL PRODUCTS
910 S. Michigan Avenue
Chicago 80, Illinois

★See ad in Catalog Section

HERCULES

RUBBER CHEMICALS

Casein, Emulsifiers, Hydroperoxides, Rosin, Reclaiming Agents, Vinsol*, Resin

*Reg. U. S. Pat. Off. GM80.3

HERCULES POWDER COMPANY INCORPORATED
Wilmington, Delaware

NEVILLE

RUBBER CHEMICALS

Coumarone resins, coal-tar softeners, plasticizing oils, and reclaiming oils for synthetic and natural rubber.

THE NEVILLE COMPANY
PITTSBURGH · PA.

COMPOUNDING MATERIALS FOR RUBBER & LATEX

RUBBER: Tackifiers • Mold Lubricants

LATEX: Tackifiers • Extenders
Wetting & Conditioning Agents

NOPCO CHEMICAL CO.
Logan & Davis Sts., Harrison, N. J.

DOUBLE-CHECKED CHEMICALS FOR THE RUBBER INDUSTRY

Ultra Accelerators
Plasticizers
Waxes
Polymerization Controller
Rubber Chemical Intermediates

Sharples Chemicals Inc. PHILADELPHIA · CHICAGO NEW YORK · AKRON

RUBBER COMPOUNDING MATERIALS (cont'd)

Keico Co, 31 Nassau St, N Y	Beekman 3-7367
National Rosin Oil Prods, Inc, 1270 6 Av, N Y	Circle 7-4473
Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Ohio-Apex Inc, Nitro, W Va	Nitro 152
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960

PICCO

Rubber Compounding Materials

Synthetic Resins, Solvents, Reclaiming Oils, Plasticizers

PENNSYLVANIA INDUSTRIAL CHEMICAL CORP.
CLAIRTON, PENNSYLVANIA

Stahl Finish Co, 23 Caller St, Peabody, Mass	Peabody 371
Sharples Chems Inc, Phila, Pa	Kingsley 5-2802
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y	Lexington 2-5806
Smith, Werner G, Co, 2191 W 110 St, Cleveland, O	Woodbine 1-4690
★Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200
Vanderbilt, R T, Co, Inc, 230 Park Av, N Y	Murray Hill 6-6864
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

Adhesive Prods Corp, N Y — Goodrich, B F, Chem Co, Cleveland, O

R. T. Vanderbilt Co., Inc.
230 PARK AVENUE NEW YORK 17, N. Y.

MINERALS and CHEMICALS
For Rubber, Paper, Paint, Ceramic & Insecticide Industries

Pigments • Accelerators • Anti-Oxidants
Clays • Carbon Black • Pyrophyllite
Talc

Laboratory located in E. Norwalk, Conn.
Stocks carried in principal cities

RUBBER, NATURAL

Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
RBH Dispersions, Div of Interchem Corp, 1-5 Factory Lane,	
Sharples Chems Inc, Phila, Pa	Kingsley 5-2802
Stein, Hall & Co, Inc, 285 Madison Av, N Y	Murray Hill 9-0800

RUBBER, RECLAIMED

Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass	Liberty 2-1870
Hercules Powder Co, 978 Market St, Wilmington, Del	
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960

RUBBER STARCH

Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175

RUBBER SUBSTITUTES

Compounds usually made from vulcanized oil and mineral rubber, or from sulfurized castor and corn oils, or rapeseed and soybean oils, to impart smooth finishes on tubing, uniform pores in sponge rubber, to improve erasers, to facilitate the extrusion operation, and to reduce gravity.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass	Peabody 2222
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

Pacific Plastics & Chem Co,

RUBBER SYNTHETIC

Synthetically produced materials which closely resemble natural rubber in physical and/or chemical characteristics and yet possess special

★See ad in Catalog Section

RUBBER SYNTHETIC (cont'd)

properties not found in the natural product, making them peculiarly fitted for certain uses, as in rubber hoses for handling oils, gasoline, making gaskets, etc.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Hercules Powder Co, 978 Market St, Wilmington, Del — Nitro 152
Ohio-Apex Inc, Nitro, W Va — Lexington 2-4322
Pan Amer Refg Corp, 122 E 42 St, N Y — Locust 7-1700
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802

Amer Prods Mfg Co, New Orleans, La — Collard Inc, Detroit, Mich

RUST REMOVERS

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Zephar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Amer Chem Paint Co, Ambler, Pa
Anderson Stolz Corp, Kansas City, Mo
Calleola Co, Cleveland, O
Colloids Inc, Newark, N J
Crescent Chem Corp, Perth Amboy, N J
Enthone, Inc, New Haven, Conn
Huchik Bleach Co, Phila, Pa
Kelite Prods, Inc, Los Angeles, Calif
Neilson Chem Co, Detroit, Mich
Oakite Prods Inc, N Y
Parker Rust-Proof Co, Detroit, Mich
Penetone Co, Tenafly, N J
Remington Arms Co, Bridgeport, Conn
Smith, E W, Chem Co, Los Angeles, Calif
Stewart Chem Prod Co, Longmont, Colo
Superior Prods Co, Somerville, Mass
Wasco Eng Corp, N Y

RUSTPROOFING COMPOUNDS

Specially formulated products for use in the several different processes of covering metal surfaces with a protective coating to prevent formation of rust and corrosion.

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Antara Prods, Gen Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Nuodex Prods Co Inc, 630 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill — Longbeach 1-2146
Tennessee Prods & Chem Corp, Nashville, Tenn — Nashville 5-8533
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Zephar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Amer Chem Paint Co, Ambler, Pa
Amer Lanoline Corp, Lawrence, Mass
Doyle, James W, Corp, Detroit, Mich
Ebony Paint Mfg Co, Kansas City, Mo
Enthone, Inc, New Haven, Conn
Flexoid Prods, Inc, Boston, Mass
Globe Paint Co, Inc, Bklyn, N Y
Heathath Corp, Springfield, Mass
Hollingshead, R M, Corp, Camden, N J
Maceo Prods Co, Chicago, Ill
Minnesota Mining & Mfg Co, Detroit, Mich
Neilson Chem Co, Detroit, Mich
Nieleo Chems, Detroit, Mich
Parker Rust-Proof Co, Detroit, Mich
Phoenix Oil Prods Corp, Newark, N J
Rodgers, Thos T, Chem Labs, Milwaukee, Wis
Texco Chems Co, Atlanta, Ga

SALTS, ELECTROPLATING

Specially prepared ingredients eliminating the necessity of the plater compounding his own baths and insuring correct proportions. Available for all the more commonly employed baths, including chromium, cadmium, nickel, zinc, etc.

Aceto Chem Co Inc, 82 Beaver St, N Y — Digby 4-9760
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700

Enthone, Inc, New Haven, Conn
Kocour Co, Chicago, Ill
Linick Chem Co, Chicago, Ill
Udylite Corp, Detroit, Mich

SANITARY CHEMICALS

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Dow Chem Co, Midland, Mich — Midland 500
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Chem Co, 1516 Industrial St, Los Angeles, Calif — Trinity 4055
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

SANITARY CHEMICALS (cont'd)

Adell Chem Co, Holyoke, Mass
Barton Chem Co, Chicago, Ill
Breen, Frank J, Chicago, Ill
Burns, Allen Co, Buffalo, N Y
Carlton Chem Co, Inc, N Y
Carpenter, W D, Co, Inc, Syracuse, N Y
Elkay Prods Co, N Y
Hachik Bleach Co, Phila, Pa
Industrial Chem Prods Co, Phila, Pa
Robbins, Geo B, Disinfectant Co, Inc, Cambridge, Mass
Texco Chems Co, Atlanta, Ga
U S Sanitary Specialties Corp, Chicago, Ill
Williams Chem Corp, Miami, Fla

SCOURING COMPOUNDS

Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Solvay Sales Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2810
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va — 2-0113
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Adell Chem Co, Holyoke, Mass
Imperial Prods Co, Phila, Pa
Lanatex Chem Co, Providence, R I
Smith, E W, Chem Co, Los Angeles, Calif

SCOURING COMPOUNDS, TEXTILE

Compounds to remove foreign material from natural fiber (cotton, wool, silk, etc.) before the process of dyeing and finishing. See also Boil-Off Compounds, Textile.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Nichel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Schor Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Adell Chem Co, Holyoke, Mass
Foster Finishing Prods Co, Phila, Pa
Laurel Soap Mfg Co, Phila, Pa
Leatex Chem Co, Phila, Pa

SEALERS, CAN

Sealing compounds used to make air-tight cans (with a removable top) used in food and other industries where it is necessary or desirable to prevent the entrance of air. Very often formulated with rubber latex, or with special waxes or gums together with clays, bentonite, asbestos, alginates, etc. These products are poured into the space between the interlocking edges of the lid and the body of the can. Sealing compounds are also often applied to the lids of glass containers.

Zephar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Dewey & Almy Chem Co, Cambridge, Mass

SEALERS, LACQUER

Prime coats applied to objects to be lacquered to close the pores, provide a smooth surface, and to act as a bond between the raw surface and the priming coat.

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060

Egyptian Lacquer Mfg Co, Newark, N J
Grand Rapids Wood Finishing Co, Grand Rapids, Mich
Industrial Chem Co, Berkeley, Calif
Midland Industrial Finishes Co, Waukegan, Ill
Natl Chem & Plastics Co, Baltimore, Md
Penetone Co, Tenafly, N J
Raffi & Svanson, Inc, Chelsea, Mass
Reliance Varnish Co, Chicago, Ill
Sahlin Color & Chem Co, Camden, N J

SEALERS, WOOD

A penetrating varnish, usually compounded from vegetable oils, varnish gums and synthetic resins, which seals the pores of new wood before the priming and finishing coats are applied.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Lamex Chem Corp, 25 Bway, N Y — Digby 4-4543
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010

★See ad in Catalog Section

SEALERS, WOOD (cont'd)

★Monsanto Chem Co, Western Div, 911 Western Av, Seattle, Wash — Ma 4203
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Amer-Marietta Co, Seattle, Wash
Bruce, E L, Co, Memphis, Tenn
Chemineal Co, Detroit, Mich
Eagle Soap Corp, Huntington, Ind
Egyptian Lacquer Mfg Co, Newark, N J
Gilbreath Chem Co, San Fran, Calif
Huntington Labs, Huntington, Ind
Interchemical Corp, Newark, N J
Solshine Mfg Co, Fall River, Mass
Vestal Chem Co, St Louis, Mo

SEIDLITZ MIXTURE

Mixture of Sodium Bicarbonate, Potassium and Sodium Tartrate, and Tartaric Acid. U.S.P.—Mixture contains not less than 23% and not more than 27% $NaHCO_3$ and not less than 73% and not more than 78% $KNaC_4H_4O_6.4H_2O$.

Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800

SEQUESTERING AGENTS

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Antara Prods, Geni Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Berzwerth Chem Co, Framingham, Mass

SEWER PIPE JOINT COMPOUNDS

A bituminous asphalt cement for making permanent, water-tight, sewer pipe joints.

Atlas Mineral Prods Co, Mertztown, Pa — Topton 37
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Ebony Paint Mfg Co, Kansas City, Mo
Lake Chem Co, Chicago, Ill
Nukem Prods Corp, Buffalo, N Y
Rulon, Ralph V, Inc, Phila, Pa

SHELLAC SUBSTITUTES

Preparations used in place of natural shellac.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Cornelius Prods Co, 386 4 Av, N Y — Murray Hill 6-6791
General Wax Refg Co, 386 4 Av, N Y — Murray Hill 6-6791
Hercules Powder Co, 978 Market St, Wilmington, Del
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Southern Lacquer Co, 1426 Philpot St, Baltimore, Md — Peabody 0060
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Wocher, H M, & Son Co, Phila, Pa

SHOCK ABSORBER FLUIDS

Preparations used in shock absorber and knee action units of automobiles, which maintain an even viscosity in varying temperatures; do not corrode pistons, springs and valves, nor form gum or sludge to foul passages, valves, or otherwise disturb the correct resistance within shock absorber or knee action units. For suppliers see Hydraulic Fluids.

Oronite Chem Co, 38 Sansome St, San Fran, Calif — Extbrook 2-0923

SHOE DRESSINGS (Industrial)

Preparations used by shoe manufacturers as a finish coating. Modern shoe dressings may be classified into the following groups:—shellac dressings; casein dressings; split and kip dressings; willow calf dressings; spirit dressings; cellulose ester dressings. Much of the glace kid, both black and colored, and a large proportion of box-calf, box hide and split leathers are treated in the shoe room with shellac dressings. Casein dressings are largely used for box hide and split leathers. Spirit dressings are prepared by dissolving certain natural resins in mixtures of organic solvents with the additions of balsams, oils, and synthetic resins. Cellulose ester dressings are special formulas of nitrocellulose or other solvent forms of cellulose and synthetic resins, usually with a suitable pigment added. See also Finishes, Leather.

Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Burns, Allen Co, Buffalo, N Y
Union Bay State Co, Inc, Cambridge, Mass

SIZE, POLYMETHACRYLIC ACID

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121

SIZES, PAPER

Products which provide a certain degree of water-and-ink resistance to paper and, in addition, aid in supplying a "binding" quality to the fibres. Most commonly used are Rosin-alum sizes; also starch, alumina, sodium silicate, casein, soda ash, soap, cellulose hydrates.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121

KELSIZE®...

- Sizing for Wax-coated Paperboard
- Surface Coating on Wallpaper
- Surface Coating for Insulation Board
- Stabilizer and Extender for Starch Adhesives

EASY AND ECONOMICAL TO USE

KELCO COMPANY

20 N. Wacker Drive, CHICAGO 6, ILL. — 31 Nassau Street, NEW YORK 5, N. Y. — 530 W. Sixth St., LOS ANGELES 14, CAL.
Cable Address: KELCOALGIN — New York

SIZES, PAPER (cont'd)

Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Hercules Powder Co, 978 Market St, Wilmington, Del
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5805
Kelco Co, 31 Nassau St, N Y — Beekman 3-7367
Magnus, Mabee & Reynard, Inc, 16 Desbrosses St, N Y — Walker 5-1110
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Extbrook 2-0923
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Knefler Bates Co, Indianapolis, Ind
Madison Glue Corp, N Y
Malt Diastase Co, Bklyn, N Y
Penick & Ford Inc, N Y

PAPERMAKERS SPECIALTIES

AZITE* Liquefier 900

PAREZ* Resins

ROSIN SIZE

WAX SIZES

CASEIN

AMERICAN Cyanamid COMPANY

30 Rockefeller Plaza, New York 20, N. Y.

* Reg. U. S. Pat. Off.

SIZES, PRINTING INK

Products added to inks either before or after formulation to give a gloss or sheen to the printed page. Also aids in preventing smudges.

★See ad in Catalog Section

SIZES, PRINTING INK (cont'd)

Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill	Boulevard 6400
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Benefelder Co, Inc, N Y	

SIZES, RAYON

Special preparations for sizing rayon warps and skeins, producing smooth yarn which weaves easily and with good loom efficiency.

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Drew, E F, & Co Inc, 15 E 26 St, N Y	Murray Hill 6-2800
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000
Colloids Inc, Newark, N J	Madison Glue Corp, N Y
Kem Prods Co, Inc, Newark, N J	Penick & Ford Inc, N Y



WILL IMPROVE PRODUCTION
with
KALI CHEMICALS

- Sizes for Acetate, Rayon, Nylon
- Water Repellents for all type fabrics
- Oils for coning Rayon or Nylon—or Wool Spinning oils
- Quick wetting or rewetting agents
- Cutting Oils, Carburizing Compounds
- Heat Treating Compounds
- Metal Blackening Compounds
- or any specialties for the Textile or Metal Trades

KALI MANUFACTURING CO.
427 Moyer St. Philadelphia 25, Pa.

SIZES, ROSIN

Specially compounded products with rosin the chief raw material for use in sizing paper, etc. Available in either the paste or dry form. See also Sizes, Paper.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Hercules Powder Co, 978 Market St, Wilmington, Del	
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

SIZES, RUG AND CARPET

Preparations adding stiffness, gloss and sheen to rugs and carpets.

Amer Polymer Corp, 101 Foster St, Peabody, Mass	Peabody 2222
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill	Boulevard 6400
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Morningstar Nicol, Inc, 630 W 51 St, N Y	Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill	Canal 6-2219
Hughes Glue Co, Detroit, Mich	Penick & Ford Inc, N Y
Madison Glue Corp, N Y	

SIZES, SILK & RAYON WARP

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
Drew, E F, & Co Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
Keico Co, 31 Nassau St, N Y	Beekman 3-7367
Morningstar Nicol, Inc, 630 W 51 St, N Y	Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill	Canal 6-2219
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000
Atlantic Gelatin Div, Woburn, Mass	Madison Glue Corp, N Y
Colloids Inc, Newark, N J	Seydel-Woolley & Co, Atlanta, Ga
Joy Chem Co, Pawtucket, R I	Standard Glue Co, N Y
Leatex Chem Co, Phila, Pa	

SIZES, TEXTILE

Various starch and gum preparations which are used to produce a smooth flexible and elastic warp. In many cases additional ingredients are added to assist in the penetration of the size.

Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Polymer Corp, 101 Foster St, Peabody, Mass	Peabody 2222
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass	Peabody 2222
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I	Centredale 0951
Atlas Powder Co, 9 & Market Sts, Wilmington, Del	Wilmington 6-8241
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Drew, E F, & Co Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill	Boulevard 6400
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Keico Co, 31 Nassau St, N Y	Beekman 3-7367
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill	Superior 7-8432
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Morningstar Nicol, Inc, 630 W 51 St, N Y	Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill	Canal 6-2219
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700
Algin Corp of Amer, N Y	Leatex Chem Co, Phila, Pa
Bryant Chem Corp, North Quincy, Mass	Penick & Ford Inc, N Y
Colloids Inc, Newark, N J	Seydel-Woolley & Co, Atlanta, Ga
Joy Chem Co, Pawtucket, R I	Sun Chem Corp, Long Is City, N Y
Laurel Soap Mfg Co, Phila, Pa	

SIZES, WALL

Usually a clear sealer used on old or new plaster walls to prevent suction, alkali and acid stains, or moisture from injuring or discoloring subsequent coats of flat paint, enamels, lacquer, varnishes, water paints, etc., or any finish coatings.

★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
★Monsanto Chem Co, Western Div, 911 Western Av, Seattle, Wash	Ma 4203
Alabastine Paint Prods, Chicago, Ill	Madison Glue Corp, N Y
Borden Co, N Y	Tamms Silica Co, Chicago, Ill
Commercial Paste Co, Columbus, O	

SIZES, WARP COTTON

Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del	Wilmington 4-5121
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Keico Co, 31 Nassau St, N Y	Beekman 3-7367
Morningstar Nicol, Inc, 630 W 51 St, N Y	Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Hart Prods Corp, N Y	Madison Glue Corp, N Y
Joy Chem Co, Pawtucket, R I	Seydel-Woolley & Co, Atlanta, Ga

SIZES, WAX

Wax emulsions are used for special sizing problems to increase strength, stiffness, water-resistance and stability of paper, textiles, etc.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Hercules Powder Co, 978 Market St, Wilmington, Del	
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Will & Baumer Candle Co, Inc, Park St, Syracuse, N Y	Syracuse 2-0411
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

SIZINGS (Paper & Textile)

Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Polymer Corp, 101 Foster St, Peabody, Mass	Peabody 2222
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass	Peabody 2222
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
General Dyestuff Corp 435 Hudson St, N Y	Watkins 4-0600
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Keico Co, 31 Nassau St, N Y	Beekman 3-7367
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Morningstar Nicol, Inc, 630 W 51 St, N Y	Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill	Canal 6-2219
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Arabol Mfg Co, N Y	

SIZINGS, HAT

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935

Arabol Mfg Co, N Y
Atlantic Gelatin Div, Woburn, Mass
Madison Glue Corp, N Y
Natl Chem & Plastics Co, Baltimore, Md
Slomons Labs Inc, Long Is City, N Y

SKIN PROTECTING COMPOUNDS

Compounds applied to the hands, and at times to the face and other exposed parts of the body, which serve as a protecting surface against the action of chemicals which burn the skin, or produce sores, eruptions, inflammation, etc. Many such products not only provide a protective layer but have neutralizing effects. Known also as dermatitis preventives.

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capital 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071
Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370

SLASHER COMPOUNDS

Before cotton yarn is ready for weaving it must be treated with preparations, generally combinations of starches and softeners. This process is called "slashing," hence the derivation of the name.

Aktivin Div, Heydan Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Du Pont de Nemours, E I, & Co (Inc), (Explosives Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Keico Co, 31 Nassau St, N Y — Beekman 3-7367
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

Arabol Mfg Co, N Y
Colloids Inc, Newark, N J

SLUSHING COMPOUNDS

Compounded products made from high grade lubricating oils for application to finished steel products that are to be shipped or stored to protect against rust and/or corrosion.

Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600

SOAP

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Kohnstamm, H & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500

Dubois Co, Cincinnati, O
Fels, Mitchell, Germantown, Pa
Gillam Soap Wks, Fort Worth, Texas
Harral, George S, N Y
Industrial Chem Prods Co, Phila, Pa
Kuehne Chem Co, Elizabeth, N J
Milwaukee Chem Co, Milwaukee, Wis
Murphy's Oil Soap Co, Cleveland, O
Pacific Plastics & Chem Co, Redwood City, Calif
Spazier Soap & Chem Co, Santa Monica, Calif
Stanley, John T, Co, Inc, N Y
Surety Mfg Co, Chicago, Ill
Western Soap & Sales Co, Spokane, Wash

SOAPS

LIQUID—15%, 25% MECHANICS
PINE SCRUB PINE JELLY

ALEX C. FERGUSSON CO.
46 E. Oregon Avenue Philadelphia 48, Pa.
Phone Howard 5-5020
Branch Warehouse, Allentown, Pa.
Phone Allentown 7780

SOAP BASE

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Hercules Powder Co, 978 Market St, Wilmington, Del
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473

SOAP BASE (cont'd)

Chicago Sanitary Prods Co, Chicago, Ill
Counts, James, Soap Co, St Louis, Mo
Gerson Stewart Corp, Cleveland, O
Schmidt Soap Prods Inc, Chicago, Ill
Stanley, John T, Co, Inc, N Y

SOAP BASE, LIQUID

Concentrated liquid soap, usually of the potash-coconut oil type which can be diluted with water, and sold in concentrations of about 40% to be diluted as low as 12% in practice.

Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Hercules Powder Co, 978 Market St, Wilmington, Del
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Chicago Sanitary Prods Co, Chicago, Ill
Counts, James, Soap Co, St Louis, Mo
Gillam Soap Wks, Fort Worth, Texas
Schmidt Soap Prods Inc, Chicago, Ill
Stanley, John T, Co, Inc, N Y

SOAP FLAKES

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Seaboard Industries, 195 Keen St, Paterson, N J — Armory 4-2294
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

Breen, Frank J, Chicago, Ill
Chicago Sanitary Prods Co, Chicago, Ill
Fels, Mitchell, Germantown, Pa
Gillam Soap Wks, Fort Worth, Texas
Hygrade Food Prods Corp, Buffalo, N Y
Industrial Chem Prods Co, Phila, Pa
McCann Chem Co, Louisville, Ky
Natl Soap Co, Tacoma, Wash
Spazier Soap & Chem Co, Santa Monica, Calif
Stanley, John T, Co, Inc, N Y
Western Soap & Sales Co, Spokane, Wash

SOAP, GREEN

Yellowish white to brownish yellow. Uses—as lubricant; detergent; in medicine. Grades—U.S.P. (Sapomollis).

Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473

Breen, Frank J, Chicago, Ill
Crystal Soap & Chem Co, Inc, Phila, Pa
Hockwald Chem Co, San Fran, Calif
Lanair Chem Corp, Chicago, Ill
Pacific Plastics & Chem Co, Redwood City, Calif
Schmidt Soap Prods Inc, Chicago, Ill
Stanley, John T, Co, Inc, N Y

SOAP LIQUID

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
National Chem Co, 1516 Industrial St, Los Angeles, Calif — Trinity 4055
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Adell Chem Co, Holyoke, Mass
Breen, Frank J, Chicago, Ill
Buckingham Wax Co, Long Is City, N Y
Burns, Allen Co, Buffalo, N Y
Carpenter, W D, Co, Inc, Syracuse, N Y
Chicago Sanitary Prods Co, Chicago, Ill
Counts, James, Soap Co, St Louis, Mo
Crystal Soap & Chem Co, Inc, Phila, Pa
Eagle Soap Corp, Huntington, Ind
Gerson Stewart Corp, Cleveland, O
Hockwald Chem Co, San Fran, Calif
Huntington Labs, Huntington, Ind
Industrial Chem Prods Co, Phila, Pa
Kleen-Glo Chem Corp, N Y
Lanair Chem Corp, Chicago, Ill
McCann Chem Co, Louisville, Ky
Murphy's Oil Soap Co, Cleveland, O
Oil-Kraft Inc, Cincinnati, O
Penetone Co, Tenafly, N J
Robbins, Geo B, Disinfectant Co, Inc, Cambridge, Mass
Schmidt Soap Prods Inc, Chicago, Ill
Standard Chem Co, Phila, Pa
Stanley, John T, Co, Inc, N Y
Swift & Co, Chicago, Ill
Uncle Sam Chem Co, Inc, N Y
U S Sanitary Specialties Corp, Chicago, Ill
Western Soap & Sales Co, Spokane, Wash

SOAP OIL

Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700

Chicago Sanitary Prods Co, Chicago, Ill
Counts, James, Soap Co, St Louis, Mo
Crystal Soap & Chem Co, Inc, Phila, Pa
Gerson Stewart Corp, Cleveland, O
Hygrade Food Prods Corp, Buffalo, N Y
Murphy's Oil Soap Co, Cleveland, O
Nielco Chems, Detroit, Mich
Oil-Kraft Inc, Cincinnati, O
Peerless Chem Co, Baltimore, Md
Phoenix Oil Co, Cleveland, O
Swift & Co, Chicago, Ill

SOAP POWDERS

A tentative definition of the A.S.T.M. states: A water-soluble powdered product consisting of soap and one or more builders, in which the soap is a minor constituent.

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Cole Labs Inc, 42-25 9 St, Long Is City, N Y — Stillwell 6-1200
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
Jones, J W, Co, 135 Hardwood Av, Caledonia, N Y — Caledonia 84

★See ad in Catalog Section

AFCO
POWDERED HAND SOAP

contains a fine grade of soap, a water softener and latest scientific detergent

ALEX C. FERGUSSON CO.

46 E. Oregon Avenue Philadelphia 48, Pa.
Phone Howard 5-5020

Branch Warehouse, Allentown, Pa.
Phone Allentown 7780

SOAP POWDERS (cont'd)

Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500

Carpenter, W D, Co, Inc, Syracuse, N Y
Gillam Soap Wks, Fort Worth, Texas
Hygrade Food Prods Corp, Buffalo, N Y
Kuehne Chem Co, Elizabeth, N J
McCann Chem Co, Louisville, Ky
Natl Soap Co, Tacoma, Wash
Spazier Soap & Chem Co, Santa Monica, Calif
Stanley, John T, Co, Inc, N Y
Swift & Co, Chicago, Ill

SOAP ROSIN

Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500

Natl Soap Co, Tacoma, Wash

SOAP TEXTILE

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200

Colloids Inc, Newark, N J
Gillam Soap Wks, Fort Worth, Texas
Hachik Bleach Co, Phila, Pa
Hygrade Food Prods Corp, Buffalo, N Y
Kuehne Chem Co, Elizabeth, N J
Swift & Co, Chicago, Ill

SOAPS, ANIMAL

Soaps medicated with different insecticidal ingredients, including pyrethrum and derris extracts, for pets and other animals.

Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Stish, W M, & Co, Inc, 20 Vesey St, N Y — Worth 4-4265

Counts, James, Soap Co, St Louis, Mo
Lanair Chem Corp, Chicago, Ill

SOAPS, ANTISEPTIC

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700

Gerson Stewart Corp, Cleveland, O
Lanair Chem Corp, Chicago, Ill
Schmidt Soap Prods Inc, Chicago, Ill

SOAPS, BENZINE

Specially prepared dry-cleaning detergents, a mixture of solvent and soap, used on silks, wools, rayon, and celanese.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000

SOAPS, BURNISHING

Usually a so-called neutral, low titer soap used as an emulsifying and lubricating agent in the mechanical burnishing or polishing of metals either before or after plating.

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700

Macco Prods Co, Chicago, Ill
Swift & Co, Chicago, Ill

SOAPS, CASTILE

Soap made from olive oil finds special applications in the textile field where a quality, neutral soap is necessary to prevent damage to the fibre.

Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

Chicago Sanitary Prods Co, Chicago, Ill
Fels, Mitchell, Germantown, Pa
Schmidt Soap Prods Inc, Chicago, Ill
Shields Buying Service, N Y

SOAPS, DRAWING

Soaps for drawing vary in their chemical properties depending on the particular type of drawing they are intended for. Dry drawing of wire is usually done with high titer, so-called neutral tallow soaps. Wet drawing of copper wire is done with emulsions containing soap of low titer, usually made of olive or oleic acid. High titer tallow soaps, so-called neutral ones, are used as emulsifying and lubricating agents in the preparation of drawing compounds for sheet metal.

SOAPS, DRAWING (cont'd)

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

Doyle, James W, Corp, Detroit, Mich
Hygrade Food Prods Corp, Buffalo, N Y
Ironsides Co, Columbus, O
Macco Prods Co, Chicago, Ill
Murphy's Oil Soap Co, Cleveland, O
Oil-Kraft Inc, Cincinnati, O
Phoenix Oil Co, Cleveland, O

SOAPS, DRY-CLEANING

A wide variety of special soaps usually in the form of pastes, alkaline detergents, or filter soluble products in which organic solvents are usually incorporated.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich — Woodward 2-5216
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Takamine Lab, Inc, 193 Arlington Av, Clifton, N J — Prescott 9-4776

Cidex Corp, Jersey City, N J
Dixo Co, Garfield, N J
Leich, Charles, & Co, Evansville, Ind
Oil States Petroleum Co, Inc, N Y

SOAPS, FIG

Pure olive oil potash soap used chiefly for the scouring of raw wool, leaving it in a lofty condition and with a soft handle.

Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

Hygrade Food Prods Corp, Buffalo, N Y
White & Bagley Co, Worcester, Mass

SOAPS, FISH OIL

Soaps made from fish oils and in soft form commonly used in conjunction with insecticides as a carrier and spreader, also in road building. Hard fish oil soap is used in textiles, tanneries, and other special industrial applications.

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

SOAPS, INSECTICIDE

Employed as a carrier or spreader, by lowering the surface tension so that an insecticide more readily covers, spreads and adheres. Potash fish oil soap or other soft soaps are most often used. See Soaps, Fish Oil, for names of suppliers.

Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

Crystal Soap & Chem Co, Inc, Phila, Pa

SOAPS, LAUNDRY

Employed both to designate soaps prepared for the home for laundering and industrial detergent purposes. This classification is here reserved for those soaps which are specially compounded for use in commercial laundries and sold in bulk.

Chlor Products
For the Laundry, Textile, Dry Cleaning Industries

Manufacturers of
SOAPS - DETERGENTS
ALKALIES - CHLORINE BLEACHES

CHLORAL CHEMICAL CORP.
171 Lombardy St. Brooklyn 22, New York
Telephone: Ev. 8-2056

SOAPS for INDUSTRY

FLAKES · LIQUID · POWDERS
TEXTILE · LAUNDRY · RUG CLEANING · LEATHER
INSECTICIDE · BURNISHING · TOILET

COLGATE-PALMOLIVE-PEET CO.
INDUSTRIAL DEPT. JERSEY CITY 2, N. J.
Atlanta 3, Ga. Chicago 11, Ill. Kansas City 3, Kans.
Berkeley 10, Calif.

FREE! New 1950 Handy Soap Buying Guide. Tells you the right soap for every purpose. Write our Industrial Department.

SOAPS, LAUNDRY (cont'd)

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Cowles Chem Co, 7016 Euclid Av, Cleveland, O — Henderson 1-3400
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Besterer Prods Co, Chicago, Ill
Carlton Chem Co, Inc, N Y
Chicago Sanitary Prods Co, Chicago, Ill
Gillam Soap Wks, Fort Worth, Texas
Hachik Bleach Co, Phila, Pa
Kushne Chem Co, Elizabeth, N J
Leich, Charles, & Co, Evansville, Ind
Natl Soap Co, Tacoma, Wash
Stanley, John T, Co, Inc, N Y
Swift & Co, Chicago, Ill
Western Soap & Sales Co, Spokane, Wash

SOAPS, LEATHER

Specialized neutral soft soaps usually made from high-grade vegetable oils, which provide extraordinary emulsion powers, clean leather thoroughly and leave the leather soft, pliable, and finely finished.

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371

Breen, Frank J, Chicago, Ill
Magicleaner Co, Newark, N J

SOAPS, MECHANICS (Hand)

Marketed in paste, cake or powder form, the first being the most common, an abrasive, usually pumice, sand or silica is incorporated to aid in the removal of grime and grease. See U. S. Government Specifications PD-231.

Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
National Chem Co, 1516 Industrial St, Los Angeles, Calif — Trinity 4055
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700

Central Illinois Labs, Inc, Peoria, Ill
Chicago Sanitary Prods Co, Chicago, Ill
Hygrade Food Prods Corp, Buffalo, N Y
Imperial Prods Co, Phila, Pa
Royal Soap & Chem Co, Los Angeles, Calif
Solar Prods Co, Chicago, Ill
Stanley, John T, Co, Inc, N Y
Surety Mfg Co, Chicago, Ill
White & Bagley Co, Worcester, Mass

METALLIC SOAPS

Stearates and Palmitates

Aluminum · Lead · Calcium · Zinc · Magnesium

For Many Important Industries

Paint · Varnish · Lacquer · Oil and Grease
Cement · Plastics · Wire Drawing · Ceramics
Cosmetics · Waterproofing · Rubber

METASAP CHEMICAL CO.
Logan & Davis Sts., Harrison, N. J.

SOAPS, METALLIC

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Baker Castor Oil Co, 110 Bway, N Y — Digby 9-0500
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Foote Mineral Co, Inc, 409 Eighteen W Chelten Bldg, Phila, Pa — Victor 4-9214
Mallinckrodt Chem Wks, 2 & Mallinckrodt Sts, St Louis, Mo — Central 8980
Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
Metasap Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Meyer, J, & Sons, 4321 N 4 St, Phila, Pa — Michigan 4-3460
Nuodex Prods Co Inc, 850 Magnolia Av, Elizabeth, N J — Elizabeth 3-2345
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Reheis Co Inc, Berkeley Hghts, N J — Summit 6-7110
Stresan-Reuter, Fred't A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Argus Chem Lab Inc, Bklyn, N Y
Ferro Chem Corp, Bedford, O
Sun Chem Corp, Long Is City, N Y

SOAPS, PASTE

Dry-cleaning soaps in the paste form used with solvents to remove insoluble soil in the dry-cleaning washer: should produce perfect whites and bright clear silks and should clarify, distill and dissolve satisfactorily. For suppliers see Soaps, Dry Cleaning.

Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Huber, R B, Sales Engr, 216 Tremont St, Boston, Mass — Hubbard 2-1454
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Carlton Chem Co, Inc, N Y
Chicago Sanitary Prods Co, Chicago, Ill
Counts, James, Soap Co, St Louis, Mo
Gerson Stewart Corp, Cleveland, O
Murphy's Oil Soap Co, Cleveland, O
Peerless Chem Co, Baltimore, Md
Phoenix Oil Co, Cleveland, O
Royal Soap & Chem Co, Los Angeles, Calif
Schmidt Soap Prods Inc, Chicago, Ill

SOAPS, RUG CLEANING

Pure soaps made of high-grade vegetable oils for cleansing carpets and rugs, removing stains and grease spots. Should provide rich lather, rinse out of the fabric easily, leave no odor, and bring out and renew the colors clearly and brightly.

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Adell Chem Co, Holyoke, Mass
Chicago Sanitary Prods Co, Chicago, Ill
Cidex Corp, Jersey City, N J
Counts, James, Soap Co, St Louis, Mo
Fond Chem Co, Los Angeles, Calif
Gerson Stewart Corp, Cleveland, O
Hockwald Chem Co, San Fran, Calif
Kleen-Glo Chem Corp, N Y
Magicleaner Co, Newark, N J
Swift & Co, Chicago, Ill

SOAPS, SILK

High-grade soaps, usually made from olive, palm oils, or oleic acid, free from color and rancidity, also free of rosin or other soap builders used as degummers and during and after dyeing. For suppliers see Soaps, Textile.

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910

Adell Chem Co, Holyoke, Mass
Counts, James, Soap Co, St Louis, Mo

SOAPS, SPOTTING

Dry-cleaning soaps used for the removal of stains. See also Pre-Spotters, Dry-Cleaning.

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512

Adell Chem Co, Holyoke, Mass
Dixo Co, Garfield, N J
Leich, Charles, & Co, Evansville, Ind

SOAPS, TEXTILE

Various types of soaps used in the textile industry for removing the natural oils, grease, etc., as well as foreign dirt and grime which accumulates on fibers of animal and vegetable origin. Textile soaps must not injure the fibres nor deposit impurities on the goods which would cause trouble with dyeing and finishing operations. See also Detergents, Textile.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800

*See ad in Catalog Section

SOAPS, TEXTILE (cont'd)

General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Michel, M. & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Bowling Green 9-2240
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Wolfen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Adell Chem Co, Holyoke, Mass
Amalgamated Chem Corp, Phila, Pa
Colloids Inc, Newark, N J
Eastern Color & Chem Co, Providence, R I
George Chem Co, Boston, Mass
Hygrade Food Prods Corp, Buffalo, N Y
Laurel Soap Mfg Co, Phila, Pa
Magicleaner Co, Newark, N J
Marlowe-Van Loan Corp, High Point, N C
Perkins Soap Co, Springfield, Mass
Watson-Park Co, Boston, Mass

SOAPS, WIRE DRAWING

Grease soaps to which talc is added providing the necessary lubrication for wire-drawing.

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Mathe Chem Co, 169 Millbank St, Lodi, N J — Prescott 9-4981
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

Counts, James, Soap Co, St Louis, Mo
Hygrade Food Prods Corp, Buffalo, N Y
Ironsides Co, Columbus, O
Milwaukee Chem Co, Milwaukee, Wis
Murphy's Oil Soap Co, Cleveland, O
Phoenix Oil Co, Cleveland, O
Stanley, John T, Co, Inc, N Y
Swift & Co, Chicago, Ill

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

SOAPS, WOOL

Soaps of different types and characteristics are generally employed in three major operations: 1. Cleaning raw stock; 2. Cleaning the yarns; 3. Milling or fulling the cloth. For suppliers see Soaps, Textile.

Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

Gillam Soap Wks, Fort Worth, Texas
Hygrade Food Prods Corp, Buffalo, N Y
Perkins Soap Co, Springfield, Mass

SODAS, LAUNDRY

Specially prepared combination of alkalies often designated as sesquicarbonate of soda, for use in laundries and for industrial fabrics. Has an alkaline strength less than soda ash and a causticity value greater than sodium bicarbonate and soda ash.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa — McKeesport 4-4278
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Turner, Joseph, & Co, Ridgefield, N J — Chickering 4-7531
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700

Bestever Prods Co, Chicago, Ill
Industrial Chem Prods Co, Phila, Pa
Leich, Charles, & Co, Evansville, Ind
Natl Soap Co, Tacoma, Wash
Nelson Chems Corp, Detroit, Mich

SODAS, MODIFIED

Combinations of mild and strong alkalies sometimes called neutral sodas, prepared in varying strengths to meet particular requirements and possessing good cleansing properties. See Sodas, Laundry. Sodas, Tanner's; Sodas, Textile

Chew, John A, Inc, 60 E 42 St, N Y — Murray Hill 2-0993
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Kaiser Aluminum & Chem Sales, Inc, Chem Div, 1924 Bway, Oakland, Calif — Twinoaks 3-4600

SODAS, MODIFIED (cont'd)

King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Opalco Lab, 20 E Pittsburg Blvd, McKeesport, Pa — McKeesport 4-4278
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Virginia-Carolina Chem Corp, 401 E Main St, Richmond, Va — 2-0113
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700

SODAS, TANNERS'

Mixtures of alkalies prepared specially for tanning operations where a less alkaline product than Tanner's Alkali is desirable.

Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

SODAS, TEXTILE

Mixtures of alkalies prepared specially for textile operations where a slightly milder agent than soda ash is wanted. See also Detergents, Textile.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass — Norwood 7-3113
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

SOFTENERS, LEATHER

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kessler Chem Co, Inc, State Ed & Cottman Av, Phila, Pa — Devonshire 8-0800
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Safran Chem & Supply Co, Lynn, Mass
Union Bay State Co, Inc, Cambridge, Mass

SOFTENERS, NITROCELLULOSE

Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
★Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y — Murray Hill 9-6000
Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Ohio-Apex Inc, Nitro, W Va — Nitro 152
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9850

SOFTENERS, PAPER

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

SOFTENERS, RUBBER

Compounds usually produced from coal-tar hydrocarbons, mineral black oil, coal-tar resins, mixtures of mineral and vegetable oils, petroleum derivatives, turpentine or derivatives, asphaltic products, natural hard bitumen, resins from rosin, etc. Not all compounds possess all the following properties: lubrication, reduction of power consumed in milling operations, improvement of the curing rate, increased dispersion of pigments, improvement of aging qualities, greater smoothness of finish.

SOFTENERS, RUBBER (cont'd)

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass	Liberty 2-1870
Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
Drew, E F, & Co, Inc, 15 E 26 St, N Y	Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Harwick Standard Chem Co, 60 S Seiberling St, Akron, O	Stadium 0481
Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800

SOFTENERS
FOR RUBBER
NATURAL — RECLAIM — SYNTHETIC
AND PLASTICS

Pictar	Resinex
Piccovol	Plas-Blend-360
Piccocizer "30"	Reclaiming Oils
Piccocizer "D"	Plastone
Dipolymer Oil	Stearic Acid
Picco S.O.S.	Lauric Acid
Para Coumarone-Indene Resins	Paraffin Waxes
Hydro Carbon Terpene Resins	Petrolatum
Modified Styrene Resins	Rubber Substitutes (Vulcanized Vegetable Oils)
	Mineral Rubber

HARWICK STANDARD CHEMICAL CO.
AKRON, OHIO
BRANCHES: BOSTON, TRENTON, CHICAGO, LOS ANGELES

★Monsanto Chem Co, Rubber Service Dept, 920 Brown St, Akron, O	
National Rosin Oil Prods, Inc, 1270 6 Av, N Y	Circle 7-4473
Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Ohio-Apex Inc, Nitro, W Va	Nitro 152
Oronite Chem Co, 38 Sansome St, San Fran, Calif	Exbrook 2-0923
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907
Colledge, E W, GSA, Inc, Jacksonville, Fla	Irvington Varnish & Insulator Co, Irvington, N J
Hardman, H V, Co, Inc, Belleville, N J	

SOFTENERS
FOR THE
RUBBER
INDUSTRY

PARA FLUX-Regular
PARA FLUX-2016
PARA FLUX-Heavy
PARA LUBE

The C. P. Hall *Co.*
CHEMICAL MANUFACTURERS
Akron • Los Angeles • Chicago

NEVILLE
NEVOLL
RUBBER SOFTENER
Coal-tar softener and effective plasticizer and wetting agent for synthetic and natural rubber to improve resistance to abrasion, tensile strength, elongation and resilience.
THE NEVILLE COMPANY
PITTSBURGH · PA.

SOFTENERS, STENCIL

Preparations which clean stencils, remove the brittleness, and restore the necessary softness so that the proper impressions may be made, clean and with the proper sharpness.

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Michel, M, & Co, Inc, 90 Broad St, N Y	Digby 4-3878

SOFTENERS, TEXTILE

Compounds which impart a softness of handle or feel to finished textiles. Previously, oils, such as castor and olive were used and still are to some extent, but in recent years many compounds and chemicals of a complex nature have been introduced. Many softeners are prepared by condensing oleic and stearic acids with ethylene diamine and its alkyl derivatives. Ortho-phenylene diamine can be substituted for ethylene diamine. Another class includes the thioethers made by reacting saturated or unsaturated monomeric aliphatic compounds or hydroaromatic compounds which contain a mercapto group, with 1:2-propylene oxides, which are substituted in the methyl group by a halogen, or hydroxy, or a mercapto radical.

Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Alrose Chem Co, 180 Mill St, Cranston, Providence, R I	Williams 1-3000
Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J	Bound Brook 9-2000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2935
Atlantis Chem Co, 2072 Smith St, Centredale, R I	Centredale 0951
Ciba Co Inc, 627 Greenwich St, N Y	Watkins 4-1122
Drew, E F, & Co Inc, 15 E 26 St N Y	Murray Hill 6-2800

A COMPLETE LINE OF
Industrial Chemicals
FOR THE
TEXTILE INDUSTRY

Acetic Acid	Magnesium Sulfate (Epsom Salt)
Alum, Ammonia	Muriatic Acid
Alum, Potassium	Nitric Acid
Aluminum Chloride Solution	Oxalic Acid
Aluminum Sulfate	Potassium Dichromate
Aluminum Sulfate, Iron Free	Sodium Bichromate
Aqua Ammonia	Sodium Bifluoride
Carbon Bisulfide	Sodium Bisulfite, Anhydrous
Carbon Tetrachloride	Sodium Hyposulfite
Chromium Fluoride	Sodium Metasilicate
Copper Sulfate	Sodium Silicate
Disodium Phosphate	Sodium Sulfate
Epsom Salt	Sodium Sulfide
Formic Acid	Sodium Sulfite
Glauber's Salt, Crystal and Anhydrous	Sodium Thiosulfate (Hypo)
Hydrofluoric Acid	Sodium Tripoly Phosphate
Lactic Acid	Stannous Chloride
Lead Acetate	Sulfuric Acid
	Sulfur
	Tetrasodium Pyrophosphate
	Trisodium Phosphate

B & A LABORATORY REAGENTS & FINE CHEMICALS
Offices in Principal Cities—
See office listing in our Directory ad.

BASIC CHEMICALS
GC
FOR AMERICAN INDUSTRY

GENERAL CHEMICAL DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.
Cable Address:
"LYCURGUS" NEW YORK, N. Y.

★See ad in Catalog Section

We manufacture
A Complete Line of
TEXTILE AUXILIARIES
Softeners.....Wetting Agents
Waterproofs.....Flameproofs
Detergents.....Finishes
MAHER
COLOR & CHEMICAL CO.
Chicago - 10 Los Angeles - 21

SOFTENERS, TEXTILE (cont'd)

Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill	Superior 7-8432
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill	Torrence 2-6962

TEXTILE SOFTENERS
STANDAPOL OILS
(Registered U. S. Patent Office)
STANTEX OILS
(Registered U. S. Patent Office)
Stanteosine
Substantive Softener
STANDARD CHEMICAL PRODUCTS, Inc.
113th and JEFFERSON STREETS, HOBOKEN, NEW JERSEY

Michel, M. & Co, Inc, 90 Broad St, N Y	Digby 4-3878
Morningstar Nicol, Inc, 630 W 51 St, N Y	Columbus 5-2860
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Ross & Rowe, Inc, 50 Bway, N Y	Whitehall 3-7295
Schw Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J	Sherwood 2-1726
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048

TEXTILE SOFTENERS
in different strengths and varied degrees of alkalinity
CREAM SOFTENER J.B.
CREAM SOFTENER CONC.
STEARIC ACID SOFTENER N.C.F.
SULPHONATED TALLOW #36
JACQUES WOLF & CO.
Manufacturing Chemists & Importers
Passaic, N J • Carlstadt, N J • Los Angeles, Calif.

SOFTENERS, TEXTILE (cont'd)

Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700

Amalgamated Chem Corp, Phila, Pa
Apex Chem Co, N Y
Bryant Chem Corp, North Quincy, Mass
Celluloïd Inc, Newark, N J
Eastern Color & Chem Co, Providence, R I
Hart Prods Corp, N Y
Joy Chem Co, Pawtucket, R I
Kearny Mfg Co, Inc, Kearny, N J
Lanalex Chem Co, Providence, R I
Laurel Soap Mfg Co, Phila, Pa
Leatex Chem Co, Phila, Pa
Marlowe-Van Loan Corp, High Point, N C
Nor-Ed Chem Co, Yorkshire, N Y
Seydel-Woolley & Co, Atlanta, Ga
Synthron Inc, Ashton, R I
Titan Chem Prods Inc, Jersey City, N J
Universal Chem Co, Boston, Mass

TEXTILE AUXILIARIES

DETERGENT
Detergent D — Solvadine G
Detergent M — Tergavon C
Ultravon W

CATION ACTIVE
Coprantine Fixer WF —Coprantine Dye After-treating Agent
Sapamine KWC —Softener
Sapamine KW (Paste) —Softener
Sapamine MS Conc. —Softener
Sapamine WL —Softener
Lyofix SB Conc. —Dye Fixing Agent
Lyofix SBK (Liquid) —Dye Fixing Agent

ANION ACTIVE
Sapamine FLK —Textile Softener

DISPERSION
Albatex PO
Solvadine K

OXIDIZING
Albatex BD—Prevents reduction in Kalr boiling and facing in discharge printing.

DELUSTRANT
Radul S
Radul W

WATER-REPELLENT
Migasol PJ—One bath water-repellent also substantive water-repellent for Wool

WETTING AGENTS
Solvadine AL — Invadine BL Conc.
Solvadine BL Conc. — Invadine B
Solvadine NC Conc. — Invadine C Conc.
Solvadine R — Invadine D
Accozine — Invadine N
Accozine BW

MORDANTING AGENT
Albatex O—Mordanting and fixing agent for Basic and Acid Dyes

Address All Inquiries to
CIBA CO., INC.
GREENWICH AND MORTON STREETS
NEW YORK
Branches:
Boston Providence
Philadelphia Charlotte
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SOFTENERS, TEXTILE CREAM

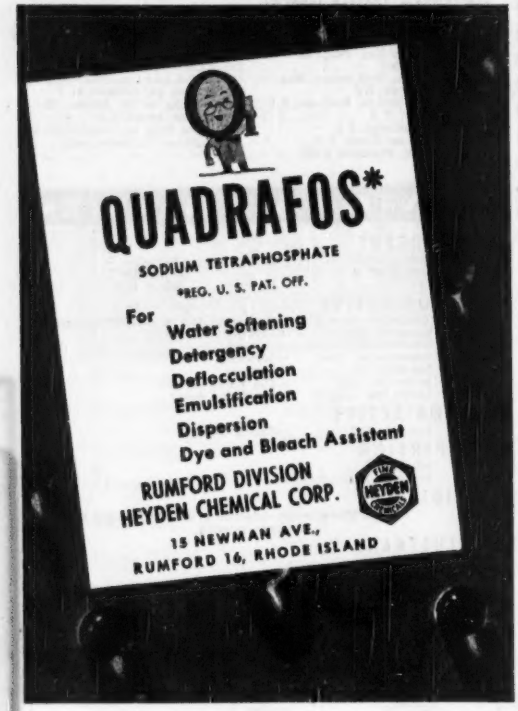
Proprietary preparations widely used in the cotton finishing industry and generally recommended for finishing cloth whether dyed or bleached, for finishing white piece goods and knitted fabrics, organdie, batiste, gingham, shirtings, also for finishing silk piece goods, or cotton and rayon and cotton and silk mixtures. Basis of many such preparations is sulfonated tallow properly processed.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J*	Bound Brook 9-2000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I	Gaspee 1-2955
Michel, M, & Co, Inc, 90 Broad St, N Y	Digby 4-3878
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

SOFTENERS, WATER

Substances used to remove soluble compounds of lime and magnesia present in natural waters and which form scale and sludge when used in boilers. Soft water is also essential in numerous industrial operations for the soluble lime and magnesium salts react with other chemicals employed to form undesirable compounds which interfere adversely with operations and processes. The four outstanding processes used for softening water are: distillation, the cold lime-soda process, the hot lime-soda process, and the zeolite process. See also Water Purification Compounds; Zeolites.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I	Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Atlantic Chem Co, 2072 Smith St, Centredale, R I	Centredale 0951
Blockson Chem Co, Patterson Rd, Joliet, Ill	Joliet 2-6601
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Fanning, Frank G, Co, 50 E 42 St, N Y	Murray Hill 7-7939
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Jones, J W, Co, 135 Hartwood Av, Caledonia, N Y	Caledonia 84



SOFTENERS, WATER (cont'd)

Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880

Anderson Stoiz Corp, Kansas City, Mo
Berkworth Chem Co, Framingham, Mass
Colloids Inc, Newark, N J
Dacar Chem Prods Co, Pittsburgh, Pa
Elgin Softener Corp, Elgin, Ill
Natl Soap Co, Tacoma, Wash
Smith, E W, Chem Co, Los Angeles, Calif
Starr Mfg & Chem Co, Lima, O

SOLDERING FLUIDS

Solder in liquid form used for sheet metal work and for bonding or joining together copper, brass, zinc, lead, tin, galvanized metals, etc.

Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2723
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
LaPlace, L J & M, 83 Zabriskie St, Hackensack, N J — Hackensack 3-0412
Seldner & Ennquist, Inc, 86 Neuman St, Bklyn, N Y — Evergreen 8-7430

Callahan, Geo, & Co, Inc, Closter, N J
Industrial Service Labs, Milwaukee, Wis
Jordan Co, Chicago, Ill
Lox Mfg Co, Kansas City, Mo
Neilson Chem Co, Detroit, Mich
Ruby Chem Co, Columbus, O

SOLDERS
TIN-LEAD
BRAZING
BISMUTH
ALUMINUM
SILVER
LOW MELTING
(ALL SHAPES AND GRADES)
Putting Mettle into Metals Since 1896
BELMONT
SMELTING & REFINING WORKS, Inc.
322 Belmont Avenue · Brooklyn 7, N.Y.
Telephone · Dickens 2-4900 · Established 1896

SOLDERS, ACID CORE

Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Callahan, Geo, & Co, Inc, Closter, N J
Eagle Picher Co, Cincinnati, O
Federated Metals Div, N Y
Ruby Chem Co, Columbus, O

SOLDERS, ALUMINUM

Usually alloys of from 50-85% tin, 15-50% zinc and aluminum. Higher melting alloys contain from 73-87% tin, 8-15% zinc, and 5-12% aluminum. Certain alloys contain copper instead of tin, still others have copper and lead as well as zinc, tin and aluminum. A few have a silver content. A representative alloy contains tin, 55%; zinc, 33%; copper, 1%; aluminum, 11%.

Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Federated Metals Div, N Y
Lox Mfg Co, Kansas City, Mo

SOLDERS, BRASS

For soft soldering, a tin-lead solder: for hard soldering, a copper-zinc alloy, poorer in copper than the pieces to be soldered. A representative brass solder contains 66% zinc and 33% copper.

Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Federated Metals Div, N Y

SOLDERS, BRAZING

Alloys of from 35-45% copper, 45-57% zinc, and 8-10% nickel.

Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Hagston, T B, & Son, Phila, Pa
Handy & Harman, N Y

SOLDERS, PASTE

A fusing metal or alloy specially prepared in paste form and used to unite adjacent surfaces of less fusible metals and alloys.

Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
General Cement Mfg Co, Rockford, Ill
Wayne Soap Co, Detroit, Mich

SOLDERS, PASTE CORE

Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

SOLDERS, PRECIOUS METALS

Specially prepared preparations for intimately joining gold, silver, platinum, etc.

Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Hagston, T B, & Son, Phila, Pa
Handy & Harman, N Y

SOLDERS, ROSIN CORE

Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Callahan, Geo, & Co, Inc, Closter, N J
Eagle Picher Co, Cincinnati, O
Federated Metals Div, N Y
Ruby Chem Co, Columbus, O

SOLDERS, SILVER

Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Goldsmith Bros Smelting & Refg Co, 109 N Wabash Av, Chicago, Ill — Randolph 6-0232
Hagston, T B, & Son, Phila, Pa
Handy & Harman, N Y

SOLUBILIZERS

Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726

SOLUTIONS, ELECTRO POLISHING

Baker & Adamson Prods, Gen Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Udylite Corp, Detroit, Mich

SOLVENT CLARIFIERS, DRY-CLEANING

Products to treat the spent solvents employed by dry-cleaners, removing impurities, coloring matter, odors, suspended or colloidal matter, etc., and restoring the solvents to their original condition so that they can be re-used

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa — Howard 5-5020
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich — Wyandotte 1700

SOLVENTS, COSMETIC

C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Florasynth Labs Inc, 1513 Olmstead Av, N Y — Talmadge 8-6000
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa — Clairton 3-8600
United Distillers of Amer Inc, 350 5 Av, N Y — Lackawanna 4-3570

*See ad in Catalog Section

PICCO SOLVENTS

AROMATIC
PETROLEUM
SOLVENTS

PENNSYLVANIA
INDUSTRIAL CHEMICAL CORP.
CLAIRTON, PENNSYLVANIA

SOLVENTS, DRY CLEANING

Products used to extract dirt, grease, grime, certain stains, etc., from articles in dry-cleaning establishments. Various types are employed, including coal-tar solvents, the chlorinated solvents, petroleum solvents (particularly Stoddard Solvent) proprietary compounds, etc. General considerations include solvent power, rate of penetration, ease of separation from extracted matter, adaptability to dry cleaning equipment, economical recovery, stability, toxicity, and flammability. See also Naphtha, Benzol, Carbon Tetrachloride, Trichlorethylene, Stoddard Solvent, etc.

Amer Mineral Spirits Co, 153 E 44 St, N Y	Murray Hill 2-6490
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
International Selling Corp, 70 Pine St, N Y	Whitehall 4-7490
King, E & F, & Co, Inc, 640 Pleasant St, Norwood, Mass	Norwood 7-3113
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I	Gaspee 1-8466
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700

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INDUSTRIAL and DOMESTIC
DETERGENTS
and
SANITIZERS

Cleaner-Sanitizers
Floor Cleaners
Dishwashing Compounds

AFCO 44 for Automatic Washers

ALEX C. FERGUSSON CO.

46 E. Oregon Avenue Philadelphia 48, Pa.
Phone Howard 5-5020

Branch Warehouse, Allentown, Pa.
Phone Allentown 7780

SOLVENTS, DRY CLEANING (cont'd)

Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7267
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
★Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y	Stillwell 4-0500
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920

Afta Solvents Corp, N Y
Dixo Co, Garfield, N J
Fort Pitt Chem Co, Pittsburgh, Pa
Leich, Charles, & Co, Evansville, Ind

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REG. U.S. PAT. OFF.

DRY CLEANING FLUIDS

"PERCLENE" Perchlorethylene
"TRICLENE" Trichlorethylene

Non-flammable fluids for modern, synthetic solvent machines.

"Ovalclene" Dry Cleaning Detergent

E. I. DU PONT DE NEMOURS & CO. (INC.)
ELECTROCHEMICALS DEPARTMENT
WILMINGTON · DELAWARE

SOLVENTS, DRUG EXTRACTING

C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
★Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957
United Distillers of Amer Inc, 350 5 Av, N Y	Lackawanna 4-3570
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700

SOLVENTS, DYE

C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Interstate Color Co, Inc, 5 Beekman St, N Y	Cortlandt 7-5281
Patent Chems, Inc, 335 McLean Blvd, Paterson, N J	Sherwood 2-1726
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J	Sherwood 2-1726

Lanatex Chem Co, Providence, R I

SOLVENTS, FATS & OILS

Amer Mineral Spirits Co, 153 E 44 St, N Y	Murray Hill 2-6490
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700

SOLVENTS, INK

Amer Mineral Spirits Co, 153 E 44 St, N Y	Murray Hill 2-6490
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650

★See ad in Catalog Section

SOLVENTS, INK (cont'd)

★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
★Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Fergusson, Alex C, Co, 46 E Oregon Av, Phila, Pa	Howard 5-5020
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600
Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600

Braden Sutphin Ink Co, Cleveland, O — Pannier Corp, Pittsburgh, Pa

Surplus Chemicals bought

- Solvents—Plasticizers—Waxes
- Pharmaceuticals—Chemicals
- Waste solvents—Purchased or Reprocessed

Aceto CHEMICAL COMPANY, INC.

82 BEAVER ST., NEW YORK 5, N. Y.
DIGBY 4-9760

SOLVENTS, LACQUER

Aceto Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass	Peabody 2222
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
★Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200

HOWE & FRENCH

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Industrial Chemicals,
Laboratory Supplies,
Lacquers, Gums, Waxes
Waterproof Cements
USP White Mineral Oil
USP Petrolatum

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99 Broad Street

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Lacquer Thinners • Ethyl Acetate • Butyl Acetate

Solvents Recovered To Your Specifications

Solvents Drummed and Stored

LACQUERS

Nitrocellulose and Cellulose Acetate Base Solutions
Finished Lacquer Specialties • Lacquer Cements and Adhesives

Bell Chemical Company

Manufacturers—Distributors

25 W. 44th Street, New York 18, N.Y. Cable Address:
Telephone: MUrray Hill 7-9221 Belcotol, New York

SOLVENTS, LACQUER (cont'd)

Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Compo Chem Co, Inc, 152 Causeway St, Boston Mass	Capitol 7-3650
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Sharples Chems Inc, Phila, Pa	Kingsley 5-2802
Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
★Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957
United Distillers of Amer Inc, 350 5 Av, N Y	Lackawanna 4-3570
U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760

Sahlin Color & Chem Co, Camden, N J

SOLVENTS, METAL DEGREASING

Various coal-tar and petroleum solvents have long been used by the manufacturers of small metal parts for degreasing before finishing. Within the past few years vapor-phase degreasing has been introduced in larger units, requiring solvents with low-boiling points, low fire and health hazards. Most often used are low-boiling chlorinated solvents, such as trichlorethylene, ethylene dichloride, carbon tetrachloride, or mixtures of these or other products.

Amer Mineral Spirits Co, 153 E 44 St, N Y	Murray Hill 2-6490
Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610

DOE & INGALLS

INCORPORATED

Chemicals—

—Solvents

SERVICE FEATURES

Carloads, Less Carload, Open-Package Stock, Trial Lots, Factory Shipments, Warehouse Stock, Consulting Service

Everett Station — Boston, Mass.

Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del	Wilmington 4-5121
Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Merchants Chem Co, Inc, 60 E 42 St, N Y	Murray Hill 2-8712
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Niagara Alkali Co, 60 E 42 St, N Y	Murray Hill 2-8090
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960

★See ad in Catalog Section

DU PONT
REG. U.S. PAT. OFF.

TRICHLORETHYLENE
PERCHLORETHYLENE

for Metal Degreasing

Available Nationally Through Distributors

E. I. DU PONT DE NEMOURS & CO. (INC.)
ELECTROCHEMICALS DEPARTMENT
WILMINGTON - DELAWARE

SOLVENTS, METAL DEGREASING (cont'd)

Sharples Chems Inc, Phila, Pa	Kingsley 5-2802
Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y	Murray Hill 9-4920
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich	Wyandotte 1700

Circo Prods Co, Cleveland, O
Dixo Co, Garfield, N J
Donald Sales & Mfg Co, Milwaukee, Wis
Fort Pitt Chem Co, Pittsburgh, Pa
George Chem Co, Boston, Mass
Impoil Co, Inc, Jersey City, N J
Neilson Chem Co, Detroit, Mich
Penetone Co, Tenafly, N J

SOLVENTS, NITROCELLULOSE

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
Amuss, W W, Inc, 220 Bway, N Y	Cortlandt 7-5728
Bell Chem Co, 19 W 44 St, N Y	Murray Hill 7-9221
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
★Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Compo Chem Co, Inc, 152 Causeway St, Boston, Mass	Vanderbilt 6-1600
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
★Tennessee Eastman Corp, 10 E 40 St, N Y	Murray Hill 3-5957
U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760

General Cement Mfg Co, Rockford, Ill
Slomons Labs Inc, Long Is City, N Y

SOLVENTS, PAINT

Acefo Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
Amer Mineral Spirits Co, 153 E 44 St, N Y	Murray Hill 2-6490
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hercules Powder Co, 978 Market St, Wilmington, Del	
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Oronite Chem Co, 38 Sansome St, San Fran, Calif	Exbrook 2-0923
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600
Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333
U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600

SOLVENTS, RUBBER

Amer Mineral Spirits Co, 153 E 44 St, N Y	Murray Hill 2-6490
Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass	Liberty 2-1870
Chew, John A, Inc, 60 E 42 St, N Y	Murray Hill 2-0993
Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121

SOLVENTS, RUBBER (cont'd)

Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
Edcan Labs, 10-20 Pine St, S Norwalk, Conn	Norwalk 6-9005
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O	Jefferson 5175
Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Newport Industries Inc, 230 Park Av, N Y	Murray Hill 6-7305
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Sharples Chems Inc, Phila, Pa	Kingsley 5-2802
Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400

Colledge, E W, GSA, Inc, Jacksonville, Fla
S S Rubber Cement Co, Chicago, Ill
Slomons Labs Inc, Long Is City, N Y

SOLVENTS, SHELLAC

C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
★Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
Commercial Solvents Corp, 17 E 42 St, N Y	Vanderbilt 6-1600
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Gray, Wm S, & Co, 342 Madison Av, N Y	Murray Hill 2-3100
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Howe & French, 99 Broad St, Boston, Mass	Hancock 5910
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
Republic Chem Corp, 94 Beekman St, N Y	Rector 2-9810
Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Sunnyside Oil Co, 2212 W Sunnyside Av, Chicago, Ill	Longbeach 1-2146
Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333
United Distillers of Amer Inc, 350 5 Av, N Y	Lackawanna 4-3570
U S Industrial Chems Inc, 60 E 42 St, N Y	Murray Hill 2-6700
Wharry, G A, & Co, Inc, 95 Broad St, N Y	Whitehall 3-5760

SOLVENTS, VARNISH

Acefo Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
Amer Mineral Spirits Co, 153 E 44 St, N Y	Murray Hill 2-6490
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y	Whitehall 4-0800
Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill	Seeley 8-2712
C P Chem Solvents Inc, 60 Park Pl, Newark, N J	Market 2-3650
★Celanese Corp of Amer, Chem Div, 180 Madison Av, N Y	Murray Hill 9-6000
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del	Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del	Wilmington 4-5121
Enjay Co, Inc, 15 W 51 St, N Y	Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif	Underhill 1-8610
Hercules Powder Co, 978 Market St, Wilmington, Del	
Neville Co, 190 Neville Island, Pittsburgh, Pa	Federal 1-4200
Newport Industries Inc, 230 Park Av, N Y	Murray Hill 6-7305
Oronite Chem Co, 38 Sansome St, San Fran, Calif	Exbrook 2-0923
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
Pennsylvania Industrial Chem Corp, 120 State St, Clairton, Pa	Clairton 3-8600
Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla	6600
Shell Chem Corp, Eastern Div, 500 5 Av, N Y	Chickering 4-5600
Shell Chem Corp, Western Div, 100 Bush St, San Fran, Calif	Exbrook 2-5400
Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333
United Distillers of Amer Inc, 350 5 Av, N Y	Lackawanna 4-3570
U S Steel Corp, Subs, Coal Chem Sales Div, 71 Bway, N Y	Bowling Green 9-7600

SOURS, LAUNDRY

Compounds employed to neutralize the alkali which the water used for rinsing may contain. Good practice does not countenance the use of sours for neutralizing laundry sodas, soap, or bleach, except such traces as cannot be removed by thorough rinsing. Acetic and oxalic acids are used, but in recent years, specially compounded products, usually containing sodium silicofluoride, have been offered whose action is less harsh and more easily controlled.

Acefo Chem Co Inc, 82 Beaver St, N Y	Digby 4-9760
Aluminum Co of Amer, Chem Div, Gulf Bldg, Pittsburgh, Pa	Atlantic 1-4545
Amer Agricultural Chem Co, 50 Church St, N Y	Barclay 7-1400
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y	Evergreen 8-2056
Davison Chem Corp, 101 N Charles St, Baltimore, Md	Saratoga 3900
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O	Main 1-6100
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich	Lo 7-4650
Hayden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y	Parkley 7-9760
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill	Torrence 2-6962
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass	Everett 7-5010
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa	McKeesport 4-1278
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa	Locust 7-1700
Riches-Nelson Inc, 342 Madison Av, N Y	Murray Hill 7-7767
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Sundheimer, Henry, Co, 103 Park Av, N Y	Murray Hill 5-4214
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y	Stillwell 4-0500
Welch, Holme & Clark Co, Inc, 439 West St, N Y	Chelsea 3-6048
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich	Wyandotte 1700

Carlton Chem Co, Inc, N Y
Robins, G S, & Co, St Louis, Mo
Superior Prods Co, Somerville, Mass

SPOT-PROOFING COMPOUNDS

Compounds which when applied to textiles provide an immunity against the formation of spots or rings caused by water or other liquids. Usually the difference between spot-proofing and water-proofing is simply the degree of treatment given. Most women's hosiery goods are spot-proofed. See also Waterproofing Agents.

SPOT-PROOFING COMPOUNDS (cont'd)

Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650

SPRAY BASES, AGRICULTURAL

Various types of oil emulsions in concentrated form, used in insecticidal and fungicidal work, diluted before application and to which active spray ingredients, such as Bordeaux, lime-sulfur, arsenicals are added. Two general types are: "dormant sprays" used before the trees are in leaf; "summer sprays" used when foliage is present. Also various types of "carriers" of the bentonite (collodial clay type).

Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Hercules Powder Co, 978 Market St, Wilmington, Del
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

Calif Spray-Chem Corp, Richmond, Calif

SPRAY BASES, CATTLE

Petroleum oils employed in formulation of stock sprays should have no toxic effect nor leave the hair sticky, gummy, dry, harsh, or brittle, and following specifications have been suggested: 1. repellent ingredient (natural material such as pyrethrum or synthetic material) compounded with an oil base. In many instances, a cheap perfuming material is added.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

World Spray Co, Inc, Los Angeles, Calif

SPRAY BASES, FLY

Oils fortified with pyrethrum, rotenone or synthetic extracts which can be diluted with hydrocarbon oils to produce a finished fly spray. For suppliers see Pyrethrum Extracts.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chem Insecticide Corp, 57 13 St, Bklyn, N Y — South 8-7141
Commercial Solvents Corp, 17 E 42 St, N Y — Vanderbilt 6-1600
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Hercules Powder Co, 978 Market St, Wilmington, Del
Phillips Petroleum Co, Chem Prods Dept, Bartlesville, Okla — 6600
Riverdale Chem Co, 324 E 147 St, Harvey, Ill — Riverdale 1880
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
U S Industrial Chems Inc, 60 E 42 St, N Y — Murray Hill 2-6700

Lanair Chem Corp, Chicago, Ill

SPREADERS, AGRICULTURAL SPRAY

Many insecticides and fungicides are employed in a water carrier and due to its relatively limited wetting properties substances are generally added which tend to lower the surface tension of the mixture and to cause it to spread more widely, in a thinner film, and to adhere more closely to the surface. Generally such spreaders consist of reaction products of the treatment of aliphatic or aromatic hydrocarbons, alcohols, and similar products with sulfuric acid. Casein in special form is widely used.

★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Kay-Fries Chems, Inc, 180 Madison Av, N Y — Murray Hill 6-0661
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
National Casein Sales, 601-619 W 80 St, Chicago, Ill — Vincennes 6-7300
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

Adler, A, & Son, Phila, Pa
Calif Spray-Chem Corp, Richmond, Calif
Drackett Co, Cincinnati, O

SPREADERS, GLUE

Drackett Co, Cincinnati, O

STABILIZERS (Polyvinyl Chloride Resins)

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Ohio-Apex Inc, Nitro, W Va — Nitro 152
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Sindar Corp, 330 W 42 St, N Y — Longacre 4-8750
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Harrison 7-3541
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Argus Chem Lab Inc, Bklyn, N Y
Deecy Prods Co, Cambridge, Mass
Ferro Chem Corp, Bedford, O

preserve the quality of your vegetable oils, sulfonated vegetable oils and fatty acids with

sindar stabilizers

effective . . . lasting . . . economical

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Industrial Aromatics and Chemicals

330 West 42nd Street, New York 18, N.Y.

Branches: Philadelphia • Boston • Cincinnati • Detroit
Chicago • Seattle • Los Angeles • Montreal • Toronto

STABILIZERS, HEAT RESISTANT

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Ohio-Apex Inc, Nitro, W Va — Nitro 152
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Argus Chem Lab Inc, Bklyn, N Y
Ferro Chem Corp, Bedford, O

STABILIZERS, LIGHT RESISTANT

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Baker Castor Oil Co, 119 Bway, N Y — Digby 9-0500
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175

STABILIZERS

A Complete Line for VINYL PLASTICS

V·1·N SN JCX

Also special stabilizers for specific requirements

ADVANCE SOLVENTS & CHEMICAL CORP.

★See ad in Catalog Section

Witco

VINYL STABILIZERS

Witco offers a large number of stabilizers to prevent deterioration of vinyl resins from the action of light and heat. By the use of specific Witco stabilizers economical protection can be realized commensurate with the requirements of the use for which the resin will be employed.

WITCO CHEMICAL COMPANY

295 MADISON AVENUE • NEW YORK 17, NEW YORK

BOSTON • CHICAGO • HOUSTON • CLEVELAND
AKRON • LOS ANGELES • SAN FRANCISCO
LONDON AND MANCHESTER, ENGLAND

STABILIZERS, LIGHT RESISTANT (cont'd)

Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Ohio-Apex Inc, Nitro, W Va — Nitro 152
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Harrison 7-3541
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Argus Chem Lab Inc, Bklyn, N Y — Furo Chem Corp, Bedford, O

STAIN REMOVERS

Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Ecclestone Chem Co, Inc, 2669-79 Gusin St, Detroit, Mich — La 7-4650
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Pennsylvania Salt Mfg Co, 1000 Widener Bldg, Phila, Pa — Locust 7-1700
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Takamine Lab, Inc, 195 Arlington Av, Clifton, N J — Prescott 9-4776
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500

Adell Chem Co, Holyoke, Mass — Hachik Bleach Co, Phila, Pa
Cidex Corp, Jersey City, N J — Magicleaner Co, Newark, N J
Dixo Co, Garfield, N J

STAINS, BIOLOGICAL

Dyes in solution or powdered form used for the selective staining of tissue for microscopic or other forms of examination.

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y — Watkins 9-2725
Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8832
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240

STAINS, BODY AND SLIP, CERAMIC

Usually calcined oxide finely ground pigments for coloring ceramic bodies. Uses: As colors or designs for tile, terra-cotta, chinaware, and the like where the pigment becomes part of the ceramic body.

Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121

STAINS, SHINGLE

A preservative coating, usually formulated with creosote and available in wide variety of colors, employed on shingles or rough siding; possesses strong penetrating powers; specially impervious to water.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121

STAINS, WOOD

Wood staining dates from the advent of aniline colors. Commercial products are basic colors in powdered form, soluble either in water, in methanol, or in special solvents as recommended by manufacturers; so-called "non-grain raising" stains are said to overcome partially slow drying, raising of the grain, and loosening the veneers.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140

Advance Paint Co, Indianapolis, Ind
Gilbreath Chem Co, San Fran, Calif
Globe Paint Wks, Inc, Williamsport, Pa
Grand Rapids Wood Finishing Co, Grand Rapids, Mich
Interchemical Corp, Newark, N J
Reliance Varnish Co, Chicago, Ill
Stille-Young Corp, Chicago, Ill
Wolverine Finishes Corp, Grand Rapids, Mich

STARCH IMPROVERS

Preparations which act physically on starch, cutting it into smaller particles, thereby improving penetration into the thread. Also improve solubility, flexibility; increase elasticity of the warp, etc.

Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Kelco Co, 31 Nassau St, N Y — Beekman 3-7567
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860

STARCH, IMPROVERS (cont'd)

Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Takamine Lab, Inc, 195 Arlington Av, Clifton, N J — Prescott 9-4776
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500

STARCHES, LAUNDRY

Specially compounded products, usually containing pure rice starch, which are employed to impart a stiffness and smoothness in commercial laundry work.

Amer Maize Prods Co, 100 E 42 St, N Y — Murray Hill 3-9200
Chloral Chem Corp, 171 Lombardy St, Bklyn, N Y — Evergreen 8-2056
Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Kohnstamm, H, & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

Arabol Mfg Co, N Y — Superior Prods Co, Somerville, Mass
Carlton Chem Co, Inc, N Y — Western Michigan Chem Co, Muskegon, Mich
Nelson Chems Corp, Detroit, Mich

STARCHES, PAPER

Starch (commonly from corn) or its conversion products used in the paper industry for beater sizing, surface sizing in the tub, on the calenders, and as an adhesive for laminating sheets into boards and for binding the mineral matter in coating. Natural starch (pearl) is used for beater sizing and as an adhesive in making Bristol board and the like. Modification by hydrolysis is carried out by addition of acid to starch suspended in water and warming the mixture. By varying the time, temperature and amount of acid, the properties of the starch, particularly its viscosity, can be controlled within narrow limits and several different products (the thin boiling starches) are produced in this way. Corn syrup (glucose) and corn sugar are produced by this operation carried on at much higher temperatures. Heating dry starch with acid produces the commercial dextrins (white, canary, etc.). Modification by oxidation is carried out by addition of an oxidizing agent and results in thinner, clearer, more gelatin-like solutions than those produced by acid hydrolysis. Starches improve scuffing, quality, and improve mullen, and to a limited extent, improve fold, finish, sizing, rattle and fuzz control.

Amer Maize Prods Co, 100 E 42 St, N Y — Murray Hill 3-9200
Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371

STARCHES, SOLUBLE

Specially prepared starches, soluble in water, usually prepared by acidulating raw starch or by heating starch with glycerine.

Amer Maize Prods Co, 100 E 42 St, N Y — Murray Hill 3-9200
Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

STARCHES, SYNTHETIC

Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Du Pont de Nemours, E I, & Co (Inc), (Electrochems Dept), Wilmington, Del — Wilmington 4-5121
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Shawinigan Prods Corp, 350 5 Av, N Y — Chickering 4-1243

Barton Chem Co, Chicago, Ill

STARCHES, TEXTILE

Starches more commonly used in warp slashing of cotton are corn and potato; for finishing, corn, potato, wheat, tapioca, sago and rice, as well as conversion products of these, are employed.

Amer Maize Prods Co, 100 E 42 St, N Y — Murray Hill 3-9200
Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650

Arabol Mfg Co, N Y — Kom Prods Co, Inc, Newark, N J

STEAM SYSTEM TREATMENT

Feedwaters Inc, N Y

STEARIC ACID SUBSTITUTES

Products usually prepared by selective hydrogenation of unsaturated oils. Used as softeners and dispersing agents in rubber, in platers' polishing compounds, in varnish production, etc.

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Binney & Smith Co, 41 E 42 St, N Y — Murray Hill 2-1960
Darling & Co, 4204 S Ashland Av, Chicago, Ill — Yards 7-3000
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Emery Industries Inc, 4206 Carew Tower, Cincinnati, O — Dunbar 5700
Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

STIFFENERS, LEATHER

Compo Chem Co, Inc, 152 Causeway St, Boston Mass — Capitol 7-3650
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5805
Los Angeles Chem Co, 1960 Santa Fe Ave, Los Angeles, Calif — Tucker 2421
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371

Dewey & Almy Chem Co, Cambridge, Mass — Natl Chem & Plastics Co, Baltimore, Md

★See ad in Catalog Section

STIFFENERS, RUBBER

Products added in certain conditions to solutions of rubber to produce a gelling action or to increase viscosity.

Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803

Goodrich, B F, Chem Co, Cleveland, O

STIFFENERS, TEXTILE

Compounds which impart a desirable stiffness and waterproofing effect to certain finished textiles. For many years weak solutions of certain natural gums in organic solvents were employed and more recently artificial resins of the vinyl, acrylate, phenol-formaldehyde, and urea-formaldehyde types have been introduced. Certain of these resins when applied in special concentrations provide the creaseless quality to linens, neckties, draperies, shirt collars, etc.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650

Burtonite Co, Nutley, N J — Joy Chem Co, Pawtucket, R I

STRIPPERS, DRY-CLEANING

Preparations to remove colors from fabrics, etc., preparatory to re-dyeing: should possess good penetration, strip evenly and rinse freely, and should not attack the fibre.

Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Ecclestone Chem Co, Inc, 2669-79 Guoin St, Detroit, Mich — Le 7-4650
Kohnstamm, H & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500

STRIPPERS, TEXTILE

Preparations used to remove dyes from fabrics before re-dyeing. See Sodium Hydrosulfite, Zinc Hydrosulfite, etc.

Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Marathon Corp, Chem Div, Rothschild, Wis
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Watson-Park Co, Boston, Mass

STUFFING COMPOUNDS, LEATHER

Preparations used to impart softness, pliability, plumpness, "feel" to leather; also to help to preserve leather and impart a certain degree of imperviousness to water. See also Oils, Sulfonated; Oils, Tanning; Softeners, Leather.

Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

Buffalo Extract & Supply Co, Buffalo, NY — Trask, Arthur C, Co, Chicago, Ill

SUGAR REFINING AGENTS

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Riches-Nelson Inc, 342 Madison Av, N Y — Murray Hill 7-7267

Chem Process Co, Redwood City, Calif

SULFATED HIGHER ALCOHOLS

Produced by catalytic hydrogenation of natural fats and oils in which the fatty acids are reduced to the corresponding fatty alcohols and these alcohols reacted with sulfuric acid, neutralized with caustic soda. These products are used in the place of soap in many fields, work equally well in hard water or soft water; called "soapless soaps" because they do not lather and leave no scum when used with hard water. Used as a detergent in home and power laundries, as a wetting, penetrating, scouring, dispersing, and emulsifying agent in many industries, particularly in the textile, dry-cleaning, paper, and leather fields; used extensively in hair shampoos.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962

SULFATED HIGHER ALCOHOLS (cont'd)

Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Scher Bros, 519 Getty Av, Clifton, N J — Sherwood 2-5650
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

Perkins Soap Co, Springfield, Mass — Stepan Chem Co, Chicago, Ill
Phoenix Oil Prods Corp, Newark, N J

SULFONATED OIL SUBSTITUTES

Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700

sulframin*

SYNTHETIC DETERGENTS

Sulframin* AB-40 Flakes
Sulframin* AB-40 Powder
Sulframin* AB-Concentrate Flakes
Sulframin* AB-Concentrate Powder
Sulframin* Neutral Beads
Sulframin* Built Beads
Sulframin* E Liquid
Sulframin* KE Liquid

Sulframin* AB Slurry

ULTRA Chemical WORKS

ULTRA CHEMICAL WORKS, INC.

Paterson, N. J. Joliet, Ill. Los Angeles, Calif.

*Trademark Reg. U. S. Pat. Off.

SULFONATES

Considerable confusion exists in the industry between the corresponding sulfates and sulfonates. The sulfates are the true esters of the corresponding higher fatty alcohols, wherein the sulfur atom of the acid group is united to the end carbon of the alcohol through an oxygen linkage, as—C.O.SO_3Na. The sulfonates are true sulfonates,



THE ULTRAWETS

Alkyl Aryl Sulfonates in liquid, slurry, flake or bead form—detergents for all purposes.
Write for our booklet—"The Ultrawets."
The Atlantic Refining Company, Chemical Products Section, 260 S. Broad St., Philadelphia 1, Pa.

ATLANTIC PETROLEUM CHEMICALS



★See ad in Catalog Section

SULFONATES (cont'd)

wherein the sulfur atom of the acid group is linked directly to a carbon atom at one end of the fatty acid chain as—C.SO₃Na. Sulfonates have remarkable wetting and emulsifying detergent properties.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Atlantic Ref Co, 260 S Broad St, Phila, Pa — Pennypacker 5-2345

ORONITE CHEMICAL COMPANY

THE NAME TO WATCH IN CHEMICALS

REG. U. S. PAT. OFF.

SODIUM SULFONATES

- Cresylic Acids
- Naphthenic Acids
- Gas Odorants—Calodorant, Alert
- Wetting Agents
- Polybutenes

COPPER NAPHTHENATE
ALIPHATIC ACIDS
PHTHALIC ANHYDRIDE
DETERGENT D-40

ORONITE CHEMICAL COMPANY

38 Sassome Street, San Francisco 4, Calif. • 30 Rockefeller Plaza, New York 20, N.Y.
Standard Oil Bldg., Los Angeles 15, Calif. • 600 S. Michigan Avenue, Chicago 5, Ill.
824 Whitney Bldg., New Orleans 12, La.

Boler Petroleum Co, 121 So Broad St, Phila, Pa — Kingsley 5-1323
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121
Emery Industries Inc, 4206 Carew Towr, Cincinnati, O — Dunbar 5700
Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Indoil Chem Co, 910 S Michigan Av, Chicago, Ill — Harrison 7-9200
Kali Mfg Co, 427 Mayer St, Phila, Pa — Regent 9-2370
Marathon Corp, Chem Div, Rothschild, Wis
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Oronite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Pennsylvania Refg Co, Cleveland, O — Stepan Chem Co, Chicago, Ill

SULFUR AGRICULTURAL

Bridge Chem Co, Inc, 2525 W Madison St, Chicago, Ill — Seeley 8-2712
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121

SULFURS

Sulfurs, Agricultural
Sulfur, Commercial Flour
Sulfurs, Dusting
Sulfurs, Refined, 100% pure
Sulfur, Rubbermakers'
Sulfurs, Wettable

BASIC CHEMICALS
FOR AMERICAN INDUSTRY

Offices in Principal Cities—See Directory ad.

GENERAL CHEMICAL DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N. Y.
Cable Address: "LYCURGUS" NEW YORK, N. Y.

General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Gumpert, E, Corp, 75 West St, N Y — Whitehall 4-9199
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8500
Merchants Chem Co, Inc, 60 E 42 St, N Y — Murray Hill 2-8712
Republic Chem Corp, 94 Beekman St, N Y — Rector 2-9810
★Stauffer Chem Co, 420 Lexington Av, N Y — Oregon 9-0200

Fresno Agricultural Chem Co, Fresno, Calif — Niagara Chem Div, Middleport, N Y
Miller Prods Co, Portland, Ore — Phoenix Chem Co, Phoenix, Ariz

Stauffer CHEMICAL SINCE 1885

SULPHUR

Agricultural
Bleaching and Fruit Curing
Crystex—Insoluble Sulphur
Sulphur Dipping
Dusting
Electric Super-Adhesive
Flour, Commercial
Flour, Refined Heavy, U. S. P.
Flour, Sublimed Light, U. S. P.
Flowers, Sublimed Velvet, U. S. P.
Match Manufacturing
Oil Refiners
Refined Lump (Broken Rock)
Roll (Stick)
Rubber (99½% and 100%)
Salt Block
Soil Compound
Spraying
Stock Foods
Superfine Commercial
Ventilated (Refined)
Ventilated (Commercial)
Virgin Rock
Wettable

STAUFFER CHEMICAL CO.
420 Lexington Ave., New York 17, N. Y.
824 Wilshire Blvd., Los Angeles 14, Calif.
221 N. La Salle St., Chicago 1, Ill.
636 California Street, San Francisco 8, California
Apopka, Florida, Houston 2, Texas, North Portland, Oregon, Weslaco, Texas
For address of nearest branch office and complete list of our other products see our Catalog ad.

SUNTAN BASE

Angus, W W, Inc, 220 Bway, N Y — Cortlandt 7-5728
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Evans Chemetics, Inc, 250 E 43 St, N Y — Murray Hill 3-0071

Felton Chem Co, Inc, Bklyn, N Y

SUPERFATTING AGENTS

Superfatting agents give plasticity and smoothness to soaps and aid in prevention of rancidity when soap is stored.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Lecithin Co, Inc, 57-01 32 Av, Woodside, N Y — Astoria 4-4[illegible]
Fanning, Frank G, Co, 50 E 42 St, N Y — Murray Hill 7-7756
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Robinson-Wagner Co, 110 E 42 St, N Y — Murray Hill 3-1184
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

Associated Concentrates Inc, Woodside, NY

SURFACE ACTIVE AGENTS (Non-Ionic)

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Antara Prods, Gen'l Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Armour & Co, 1355 W 31 St, Chicago, Ill — Lafayette 3-7000
Arnold, Hoffman & Co, Inc, 55 Canal St, Providence, R I — Gaspee 1-2935
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Hercules Powder Co, 978 Market St, Wilmington, Del
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
★Monsanto Chem Co, Rubber Service Dept, 920 Brown St, Akron, O
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Riches-Nelsen Inc, 342 Madison Av, N Y — Murray Hill 7-7267
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Sharples Chems Inc, Phila, Pa — Kingsley 5-2802
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200

★See ad in Catalog Section

SURFACE ACTIVE AGENTS (cont'd)

Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Victor Chem Wks, 141 W Jackson blvd, Chicago, Ill — Harrison 7-3541
Washine-National Sands Inc, 37-02 Northern Blvd, Long Is City, N Y — Stillwell 4-0500
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Laurel Soap Mfg Co, Phila, Pa
Lentex Chem Co, Phila, Pa
Titan Chem Prods Inc, Jersey City, N J

SUSPENSION AGENTS

Emulsifying agents employed to keep particles from settling out of liquid products. See also Emulsifiers.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Antara Prods, Geni Aniline & Film Corp, 444 Madison Av, N Y — Plaza 9-8540
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Atlas Powder Co, 9 & Market Sts, Wilmington, Del — Wilmington 6-8241
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Colgate-Palmolive-Peet Co, 105 Hudson St, Jersey City, N J — Bergen 4-1300
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Goldschmidt Chem Corp, 153 Waverly Pl, N Y — Chelsea 3-4792
Hercules Powder Co, 978 Market St, Wilmington, Del
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Kelco Co, 51 Nassau St, N Y — Beekman 3-7357
Michel, W, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Synthetic Chems Inc, 335 McLean Blvd, Paterson, N J — Sherwood 2-1726
Vanderbilt, R T, Co, Inc, 230 Park Av, N Y — Murray Hill 6-6864

Drackett Co, Cincinnati, O

SWEEPING COMPOUNDS

Attapulgus Clay Co, 210 W Washington Sq, Phila, Pa — Walnut 2-5720
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Burns, Allen Co, Buffalo, N Y
Crescent Chem Corp, Perth Amboy, N J
McCann Chem Co, Louisville, Ky
Snyder, Jno C F, & Sons, Inc, Phila, Pa
Western Soap & Sales Co, Spokane, Wash
Williams Chem Corp, Miami, Fla

SWELLING AGENTS, RUBBER

Products generally added before vulcanization to soften rubber and improve its processing in the factory. Certain of these not only soften the rubber, but also activate some accelerators and stiffen the resulting vulcanizates; others improve pigment dispersion.

Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200

TALLOW, BUFFING AND POLISHING

Principal use is on polishing wheels which are set up with aluminum oxide grain or emery. Prevents burning and glazing and provides a lubricant for the abrasive; also used for die lubrication, drawing, and as a lubricant for sawing metals.

Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Marcus-Ruth-Jerome Co, 327 LaSalle St, Chicago, Ill — Harrison 7-1760
Smith, Werner G, Co, 2191 W 110 St, Cleveland, O — Woodbine 1-4690
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

Buckingham Prods Co, Detroit, Mich
Kocour Co, Chicago, Ill
Murphy's Oil Soap Co, Cleveland, O
Stevens, Frederic B, Inc, Detroit, Mich
Udylite Corp, Detroit, Mich

TALLOW, SIZING

Sulfonated tallows used to impart soft, full hand to fabrics. Specially useful on cottons, broadcloths, etc.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Marcus-Ruth-Jerome Co, 327 LaSalle St, Chicago, Ill — Harrison 7-1760
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Welch, Holme & Clark Co, Inc, 439 West St, N Y — Chelsea 3-6048

Arabol Mfg Co, N Y

TANNAGES, ONE-BATH

Leather is chrome-tanned by two processes: the two-bath and the one-bath methods. In the former skins are immersed in a bath of either sodium or potassium bichromate and an acid, usually muriatic and a second bath to reduce the chromic acid to an inert oxide, usually accomplished in a drum-tumbler containing a solution of sodium hyposulfite and a weak acid, usually muriatic. In the one-bath method the skins are soaked in a prepared liquor containing basic chromium sulfate or chloride, obtained by a mixture of chrome alum and soda or bichromate of potash or soda, or by reducing chromic acid with glucose or sulfur dioxide.

Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874
Mutual Chem Co of Amer, 270 Madison Av, N Y — Caledonia 5-9710
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860

Fiber Chem Corp, Matawan, N J

TANSTUFFS, SYNTHETIC

Preparations synthetically produced which take the place of or are used in conjunction with natural tanstuffs or chrome tanning compounds.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Dennis, Martin, Co, 859 Summer Av, Newark, N J — Humboldt 3-2874

SANTOTAN-KR

(Basic Chrome Sulfate)

Specifications: Dark green crystals; solution in water (5:500), clear; basicity (Cr_2O_3/SO_3), 101-105; basicity (Scherlemmer), 37.3%-39.7%; chromium as Cr_2O_3, 23.9% min. **Uses:** In chrome tanning of calf, cow and horse hides and sheepskins.

MONSANTO CHEMICAL COMPANY
Organic Chemicals Division
St. Louis 4, Mo.

Santotan: Reg. U.S. Pat. Off.

MONSANTO CHEMICALS—PLASTICS

SERVING INDUSTRY . . . WHICH SERVES MANKIND

For address of nearest District Sales Office see ad in Catalog Section.

TANSTUFFS, SYNTHETIC (cont'd)

Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Marathon Corp, Chem Div, Rothschild, Wis
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
National Aniline Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Bowling Green 9-2240
N Y Color & Chem Co, 374 Main St, Belleville, N J — Belleville 2-1140
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Fiber Chem Corp, Matawan, N J

MARTIN DENNIS PRODUCTS

Made especially for LEATHER TANNING

TANOLIN®, the original one-bath chrome tan is made in 5 types—Tanolin R-T-KXD-225-W2XD—varying in basicity, alum and chrome content.

ACIDOLENE®, sulfonated oil fat liquors comprise a complete range of animal, marine, mineral and vegetable oils for all kinds of leather.

ALBAOIL®, ALKOLENE®, CHROMOL®, EMULSOL®, NEETOL®, NEUTROLENE®, fat liquor specialties, acid, alkaline and neutral, for specific leathers and finishes.

ALBATAN®, tanning agents for white leathers.

KROMOID®, waterproof fillers for heavy leathers.

LEXOL®, self-penetrating leather conditioner and preservative.

SERVICE—practical, technical advice or demonstrations on request.

THE MARTIN DENNIS COMPANY
859 SUMMER AVENUE NEWARK 4, NEW JERSEY

A Division of Diamond Alkali Company Specializing in Chemicals for the Leather Industry.

Chemicals you live by

DIAMOND ALKALI CHEMICALS

DIAMOND ALKALI COMPANY
CLEVELAND 14, OHIO

TAR, DAMP-PROOFING

Tars for application to concrete or masonry surfaces. They are supplied in various grades, depending upon the way they are to be used. Some are very thin and actually penetrate the surface, and others are heavier and quicker drying.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

Ebony Paint Mfg Co, Kansas City, Mo

TAR REMOVER

Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
C P Chem Solvents Inc, 60 Park Pl, Newark, N J — Market 2-3650
Dee & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Dow Chem Co, Midland, Mich — Midland 500
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J — Bigelow 3-0700
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

Afta Solvents Corp, N Y
Ducar Chem Prods Co, Pittsburgh, Pa
George Chem Co, Boston, Mass
Harrison & Co, Inc, Haverhill, Mass
Impoil Co, Inc, Jersey City, N J
K & L Chem Co, Chicago, Ill
Lanatex Chem Co, Providence, R I
Perkins Soap Co, Springfield, Mass
Smith, E W, Chem Co, Los Angeles, Calif
Technical Chem Corp, Bethel, Conn
Thompson Chem Co, Pawtucket, R I

TARS

Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

TARS, FISH NET

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Chemstar Inc, 40 Exchange Pl, N Y — Hanover 2-0564
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Cabot, Samuel, Inc, Boston, Mass

TARS, MOLD WASH

Dehydrated coal tar of suitable characteristics for application to ingot molds to permit their easy removal from the ingot.

Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461

TARS, REFINED

Dehydrated coal tar of characteristics suitable for the intended use.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

Cooper's Creek Chem Corp, W Conshohocken, Pa
Ruberoid Co, N Y

TARS, ROAD

Road tars are products specially prepared by blending, distilling and fluxing suitable coal tars and water gas tars and their oils to meet specifications for the particular intended use. The characteristics of the tars vary with the type of road construction for which they are to be used. They are used for stabilizing and priming the subgrade, for surface treatment, penetration macadam, mixed-in-place and cold laid-premixed construction, and for seal coats. Specifications for road tars have been set up by national organizations such as the American Society for Testing Materials, American Association of State Highway Officials, and Bureau of Public Roads, and by most states and by many local organizations.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

TARS, SATURATING

A coal-tar product used in preparing tarred felt and tarred fabrics for built-up roofing and membrane waterproofing.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

TARS, WATERPROOFING

Tars for application to concrete or masonry surfaces. In one method of application the surface to be waterproofed is given several treatments with a penetrating tar and then a treatment with a cut-back pitch to seal the surface. See A.S.T.M. Specifications D42-36T, D43-36T, D200-36T and D201-36T.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Neville Co, 190 Neville Island, Pittsburgh, Pa — Federal 1-4200
Reilly Tar & Chem Corp, 1615 Merchants Bank Bldg, Indianapolis, Ind — Market 9461
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

TEAR RESISTERS, RUBBER

Products to impart to tires, tubes, clothing, footwear, water bottles and many mechanical rubber goods greater resistance to tearing.

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

TERMITE EXTERMINATORS

Dee & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421

TERMITE EXTERMINATORS (cont'd)

Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo — Laclede 2201
Cooper's Creek Chem Corp, W Conshohocken, Pa
Calif Spray-Chem Corp, Richmond, Calif

TESTING PAPERS

Hartman-Leddon Co, Inc, 5821 Market St, Phila, Pa — Allegheny 4-8832
Machlett, E, & Son, N Y
Udylite Corp, Detroit, Mich

TEXTILE SPECIALTIES

Aktivin Div, Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
Dee & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Drew, E F, & Co, Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Heyden Chem Corp, 393 7 Av, N Y — Pennsylvania 6-9000
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa — Regent 9-7100
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
Kelco Co, 31 Nassau St, N Y — Beekman 3-7367
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Superior 7-8432
Mann, George & Co, Inc, 251 Fox Point Blvd, Providence, R I — Gaspee 1-8466
Martyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Torrence 2-6962
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8300
Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Paisley Prods Inc, 1770 Canalport Av, Chicago, Ill — Canal 6-2219
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Bergen 3-4512
Rumford Div, Heyden Chem Corp, Rumford, R I — East Providence 1-2880
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Amalgamated Chem Corp, Phila, Pa
Arabol Mfg Co, N Y
Bersworth Chem Co, Framingham, Mass
Colloids Inc, Newark, N J
Deecy Prods Co, Cambridge, Mass
Joy Chem Co, Pawtucket, R I
Lestex Chem Co, Phila, Pa
Marlowe-Van Loan Corp, High Point, N C
Montgomery Bros Inc, Phila, Pa
Nor-Ed Chem Co, Yorkshire, N Y
Perkins Soap Co, Springfield, Mass
Seydel-Woolley & Co, Atlanta, Ga
Watson-Park Co, Boston, Mass

TEXTILE WEIGHTING COMPOUNDS

Metallic salts, principally tin salts, applied to silk, cotton, rayon knit goods used to impart body and fine drapy hand to fabrics. Certain weighting comopunds are also formulated with special gums.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y — Circle 7-0100
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Kali Mfg Co, 427 Moyer St, Phila, Pa — Regent 9-2370
★Monsanto Chem Co, Merrimac Div, Everett Sta, Boston, Mass — Everett 7-5010
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Bergen 4-1700
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J — Hoboken 3-1200
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000

Arabol Mfg Co, N Y
Lestex Chem Co, Phila, Pa

THICKENERS, LATEX

Products usually prepared from natural gums, casein, alginates, naphthalene, etc., to impart to latex the proper consistency for processing.

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kelco Co, 31 Nassau St, N Y — Beekman 3-7367
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Rohm & Haas Co, Washington Sq, Phila, Pa — Lenhard 3-9860
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Algin Corp of Amer, N Y

THICKENING AGENTS

Products which when added to liquids or semi-liquids tend to increase the viscosity or supply a "gelling" or colloidal action. See also Emulsifiers.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Amer Colloid Co, Merchandise Mart Plaza, Chicago, Ill — Superior 7-5637
Amer Polymer Corp, 101 Foster St, Peabody, Mass — Peabody 2222
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill — Graceland 7-3030
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Duche, T M, & Sons, Inc, 117-119 Hudson St, N Y — Walker 5-5530
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y — Main 4-1760
Hercules Powder Co, 978 Market St, Wilmington, Del
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Kelco Co, 31 Nassau St, N Y — Beekman 3-7367
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa — Devonshire 8-0800

★See ad in Catalog Section

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THICKENING AGENTS (cont'd)

Michel, M, & Co, Inc, 90 Broad St, N Y — Digby 4-3878
Morningstar Nicol, Inc, 630 W 51 St, N Y — Columbus 5-2860
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Rohm & Haas Co, Washington Sq, Phila, Pa — Lombard 3-9860
Ross & Rowe, Inc, 50 Bway, N Y — Whitehall 3-7295
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371
United Clay Mines Corp, 103 Oakland St, Trenton, N J — Trenton 5-6356
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Wyandotte Chems Corp, Michigan Alkali Div, Wyandotte, Mich — Wyandotte 1700

Burtonite Co, Nutley, N J
Drackett Co, Cincinnati, O
Kem Prods Co, Inc, Newark, N J

TONERS, LITHOGRAPHIC

Unadulterated organic and inorganic colors, dispersed in a suitable vehicle, principally linseed oil, suitably bodied. In a few specific cases other vehicles, such as perilla oil, tung oil, etc., are used. When these oils are used they do not enhance the value of the finished product as far as brilliancy is concerned. They only serve their purpose insofar as resistance to alkali, acid and weather conditions are concerned.

Amer Cyanamid Co, Calco Chem Div, Bound Brook, N J — Bound Brook 9-2000
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Kohnstamm, H & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

Holland Color & Chem Co, Holland, Mich

TONERS, PHOTOGRAPHIC

Toners are metallic salts or organic dyes which are used for coloring photographic positives by replacing all or part of the silver in the image. In a toned print, only the darker portions are colored, the highlights remaining clear; while a tinted print is colored uniformly over the entire surface. Most toning processes require an intermediate mordanting operation.

Du Pont de Nemours, E I, & Co (Inc), (Photo Prods Dept), Wilmington, Del — Wilmington 4-5121
Eastman Kodak Co, 343 State St, Rochester, N Y — Locust 6000
Edwal Labs, Inc, Ringwood, Ill — Richmond 5-5919

Fund Chem Co, Los Angeles, Calif

TONERS, PAINT

Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Harmon Color Wks Inc, P O Box 14, Hawthorne, N J — Lambert 3-2900
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Kohnstamm, H & Co Inc, 83 Park Pl, N Y — Barclay 7-9760
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567

Holland Color & Chem Co, Holland, Mich

TOUGHENING AGENTS, RUBBER

Cabot, Godfrey L, Inc, 77 Franklin St, Boston, Mass — Liberty 2-1870
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa — Mayflower 1-2960
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Goodrich, B F, Chem Co, Cleveland, O

TRANSFORMER COMPOUNDS

Usually the higher petroleum fractions, more or less identical with lubricating oils; free from moisture and acid. Specialised preparations are also marketed. Purpose is to act as a cooling and insulating medium. Should have high dielectric strength, low freezing point, low viscosity, stability; and non-inflammability is still another highly desirable characteristic.

Zophar Mills Inc, 116 26 St, Bklyn, N Y — South 8-0907

TRANSFORMER COMPOUNDS (cont'd)

VARNISH BASES

"A liquid coating material, containing no pigment, which flows out to a smooth coat when applied and dried to a smooth, glossy, relatively hard, permanent solid when exposed in a thin film to the air." A.S.T.M. official definition. There are also "flat varnishes." Special mixtures of oils used in varnish formulation.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Chem Service Corp, 92A Beaver St, N Y — Hanover 2-6970
Corn Prods Refg Co, 17 Battery Pl, N Y — Whitehall 4-0880
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass — Everett 7-4610
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Hercules Powder Co, 978 Market St, Wilmington, Del
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Advance Paint Co, Indianapolis, Ind

VARNISHES, ACID AND ALKALI RESISTANT

Specially formulated products used in protection and/or decoration of surfaces liable to acid or alkaline attack, or which may come in contact with substances which have active acid or alkaline properties.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222

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VARNISHES, ACID AND ALKALI RESISTANT (cont'd)

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sauereisen Cements Co, Sauereisen Bldg, Sharpsburg, Pa — Sterling 1-2323
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Advance Paint Co, Indianapolis, Ind
Amer Lithographic Varnish Co, Kearny, N J
Arco Co, Cleveland, O
Armstrong Paint & Varnish Wks, Chicago, Ill
Briggs-Maroney Co, Inc, Everett, Mass
Cellcote Co, Cleveland, O
Nonweiler, A P, & Co, Oshkosh, Wis
Technical Chem Corp, Bethel, Conn
U S Varnish Co, Hasbrouck Hghts, N J
Varnitop Co, Burbank, Calif

VARNISHES, ASPHALT

Black asphalt base varnishes with good heat-resistant qualities, used principally on furnaces, stoves, boilers, tanks, etc., where finishes are exposed to heat.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Advance Paint Co, Indianapolis, Ind

VARNISHES, BAKING

Varnishes formulated to bake at 250° to 350° F., and which give an exceptionally hard finish.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Pruett-Schaeffer Chem Co, Pittsburgh, Pa

VARNISHES, BRONZING

Those formulated under strict specifications to be used with bronze powders. These varnishes may be used for interior or exterior purposes, for heat resisting purposes and as primers.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Advance Paint Co, Indianapolis, Ind

VARNISHES, CEMENT

Technical Chem Corp, Bethel, Conn
U S Sanitary Specialties Corp, Chicago, Ill

VARNISHES, FURNITURE

Interior finishes in which the oil length is varied depending upon whether or not the dried film is to be rubbed.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Reliance Varnish Co, Chicago, Ill
Technical Chem Corp, Bethel, Conn
Vita-Var Corp, Newark, N J

VARNISHES, GLOSS

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Amer Lithographic Varnish Co, Kearny, N J
Old Colony Paint & Chem Co Labs, Los Angeles, Calif
Technical Chem Corp, Bethel, Conn
Vita-Var Corp, Newark, N J

VARNISHES, INSULATING

Varnishes of great dielectric strength and resistance to heat, oil and water. Used for coatings on electrical parts and equipment.

Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

General Cement Mfg Co, Rockford, Ill
Irvington Varnish & Insulator Co, Irvington, N J

VARNISHES, LABELING

Special varnishes for covering labels to improve the appearance, provide protection against moisture, dust, finger marks, etc.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Amer Lithographic Varnish Co, Kearny, N J
Burtonite Co, Nutley, N J
Pyroxylin Prods, Inc, Chicago, Ill
Varnitop Co, Burbank, Calif

VARNISHES, LAMINATING

Specialized varnishes formulated from synthetic resins and appropriate solvents and which are used to impregnate the laminating fabric which is either paper or cloth. Impregnating is accomplished on special machines. By means of rollers, the fabric passes continually through a dip tank, or other device by which the varnish is applied in a uniform coating. The varnish-laden sheet passes from the dipping operation to a dryer, usually of the lower type where the solvent is evaporated. After being dried of the solvent, the processed web is cut into sheets of convenient size. A large number of these sheets are then superimposed and placed in a hydraulic press. Under the action heat and pressure, a hard dense, rigid plate is formed. The mass of resinoid-impregnated layers has been completely polymerized and transformed into a hard, dense board which will not dilaminate, cannot be softened by heat, is non-hygroscopic and possesses unusual mechanical and dielectric strength. Only synthetic resins that are capable of becoming permanently infusible and insoluble can be used in laminating varnish formulation. Laminating varnishes must be highly dielectric and heat-resisting, impervious to oils, water, solvents and most chemicals.

Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass — Peabody 2222
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Durez Plastics & Chems Inc, 5 Walck Rd, N Tonawanda, N Y — Tonawanda 1860
Reichhold Chems, Inc, 601-707 Woodward Hghts Blvd, Detroit, Mich — Jordan 4-6500
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Acme Resin Corp, Forest Park, Ill
Irvington Varnish & Insulator Co, Irvington, N J

VARNISHES, LITHOGRAPHIC

See also Varnishes, Printing Ink

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Amer Lithographic Varnish Co, Kearny, N J
Johnson, Charles Enen, & Co, Phila, Pa
Benefelder Co, Inc, N Y

VARNISHES, METAL

Varnishes of the oleoresinous types to be used over the coating of metal, mainly for protective purposes.

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

VARNISHES, OLEO-RESINOUS

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

Amer Lithographic Varnish Co, Kearny, N J
Bute, James, Co, Houston, Texas
Pruett-Schaeffer Chem Co, Pittsburgh, Pa

VARNISHES, PRINTING INK

Specially compounded products, usually containing rosin and other varnish gums and possibly waxes together with bodied linseed oil or other suitable oils and which are used to mix or grind with the various pigments or dyes employed in ink making.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

Amer Lithographic Varnish Co, Kearny, N J
Ink & Chem Co, Inc, N Y
Johnson, Charles Enen, & Co, Phila, Pa
Okie, F G, Inc, Phila, Pa
Palmer Supplies Co, Cleveland, O

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

VARNISHES, ROSIN

Hilton-Davis Chem Co Div, 2235 Langdon Farm Rd, Cincinnati, O — Elmhurst 1300
National Rosin Oil Prods, Inc, 1270 6 Av, N Y — Circle 7-4473
Newport Industries Inc, 230 Park Av, N Y — Murray Hill 6-7303
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

Ink & Chem Co, Inc, N Y

VARNISHES, SHELLAC

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Diehl, Wm, & Co, 330 W 42 St, N Y — Bryant 9-5211
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

MERCK

more than a decade of

Vitamin Leadership

For more than a decade, the name Merck has been identified with leadership in the synthesis, development, and large-scale production of pure vitamins.

The following list of contributions in the vitamin field made by Merck chemists and their collaborators emphasizes the outstanding role played by Merck & Co., Inc. in the development of these vitally important substances:

1934 Ascorbic Acid Merck (U.S.P.) was made available by Merck & Co., Inc.

1936 Vitamin B_1 was synthesized in the Merck Research Laboratories.

1937 Thiamine Hydrochloride Merck (U.S.P.) was made available in commercial quantities.

1938 Nicotinic Acid Merck (U.S.P.) (Niacin) and Nicotinamide Merck (U.S.P.) (Niacinamide) were made commercially available.

Riboflavin Merck (U.S.P.) was the second pure crystalline vitamin to reach commercial production during that year.

Alpha Tocopherol (Vitamin E) was identified and synthesized by Merck chemists and their collaborators in other laboratories.

1939 Vitamin B_6 was synthesized in the Merck Research Laboratories.

1940 Vitamin B_6 Hydrochloride Merck (Pyridoxine Hydrochloride) became available in commercial quantities.
Alpha Tocopherol Merck (Vitamin E) was made commercially available.

Vitamin K_1 Merck (2-Methyl-3-Phytyl-1,4-Naphthoquinone) was made commercially available.

Menadione Merck (U.S.P.) (2-Methyl-1,4-Naphthoquinone), a pure chemical having marked Vitamin K activity, became available in commercial quantities.

Pantothenic Acid, member of the Vitamin B Complex, was identified and synthesized by Merck chemists and their collaborators in other laboratories.

Calcium Pantothenate Dextrorotatory, a biologically active form of Pantothenic Acid, was made commercially available by Merck & Co., Inc.

1943 Biotin, member of the Vitamin B Complex, was synthesized in the Merck Research Laboratories.

1944 Biotin Merck was made commercially available by Merck & Co., Inc.

1948 Crystalline Vitamin B_{12}, anti-anemia factor in pure form, was isolated in the Merck Research Laboratories.

1949 Crystalline Vitamin B_{12} Merck was made commercially available.
Thiamine Mononitrate Merck, a more stable form of Vitamin B_1, was made commercially available.

1950 Synthetic Vitamin A Merck was made commercially available.

★

MERCK & CO., INC.

Manufacturing Chemists

RAHWAY, NEW JERSEY

New York, N. Y. Philadelphia, Pa. St. Louis, Mo.
Elkton, Va. Chicago, Ill. Los Angeles, Calif.

In Canada:

MERCK & CO. Ltd. • Montreal • Toronto • Valleyfield

VARNISHES, SHELLAC (cont'd)

Shields Buying Service, N Y
Stille-Young Corp, Chicago, Ill
Wocher, H M, & Son Co, Phila, Pa

VARNISHES, SPAR

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

Briggs-Maroney Co, Inc, Everett, Mass
Eagle Picher Co, Cincinnati, O
Johnson, S C, Co, Racine, Wis
Vita-Var Corp, Newark, N J

VARNISHES, SYNTHETIC

Varnishes formulated with synthetic resins instead of natural gums and distinguished by quick drying, hardness, high gloss, and resistance to water, acid, alkali, and grease. Used on automobiles, furniture, floors, linoleum, etc.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

Amer Lithographic Varnish Co, Kearny, N J
Briggs-Maroney Co, Inc, Everett, Mass
Nonweiler, A P, & Co, Oshkosh, Wis
Old Colony Paint & Chem Co Labs, Los Angeles, Calif
Rafft & Swanson, Inc, Chelsea, Mass
Specialty Resins Co, Lynwood, Calif
Technical Chem Corp, Bethel, Conn
United Lacquer Mfg Corp, Linden, N J

VARNISHES, TIN PLATE

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806
Stresen-Reuter, Fred'k A, Inc, 2113 Medill Av, Chicago, Ill — Humboldt 1552

VARNISHES, WATERPROOF

Varnishes specially formulated to withstand the effect of water, often of the phenolic and alkyd types.

Alkydol Labs, Inc, 3242 S 50 Av, Cicero, Ill — Bishop 2-1374
Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del — Wilmington 4-5121
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

VARNISHES, WRINKLE

Atlas Powder Co, Industrial Finishes Dept, Canal & Ludlow Sts, Stamford, Conn — Stamford 3-2171
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y — Lexington 2-5806

New Wrinkle Inc, Chicago, Ill

VISCOSITY IMPROVERS, DRYING OILS

Advance Solvents & Chem Corp, 245 5 Av, N Y — Murray Hill 9-2620
Diamond Alkali Co, 300 Union Commerce Bldg, Cleveland, O — Main 1-6100
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Petroleum Specialties, Inc, 205 E 42 St, N Y — Oregon 9-2310

VISCOSITY IMPROVERS, OILS

Metallic soaps which are completely soluble in an oil and build a gel which can be successively reduced to the desired viscosity.

Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Enjay Co, Inc, 15 W 51 St, N Y — Plaza 7-1200
Griffin Chem Co, 1000 16 St, San Fran, Calif — Underhill 1-8610
Marcus-Ruth-Jerome Co, 527 LaSalle St, Chicago, Ill — Harrison 7-1760

VISCOSITY LUBRICANTS

Solid metallic soaps soluble in mineral oil which increase viscosity and also improve flash point and surface tension.

Industrial Raw Materials Corp, 52 Wall St, N Y — Digby 4-1500
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

VITAMIN CONCENTRATES

Concentrations of vitamins A and D and others for incorporation in bread, milk, etc., and in stock foods.

Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif — Angelus 2-4104
Dawe's Vitamins, Inc, 4800 S Richmond St, Chicago, Ill — Virgina 3710
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Fallek Products Co Inc, 163 Bway, N Y — Barclay 7-7939
Greeff, R W, & Co, Inc, 10 Rockefeller Plaza, N Y — Circle 6-9680
Merck & Co Inc, 100 Lincoln Av, Rahway, N J — Rahway 7-1200
Meyer, Herman, Drug Co, P O Box 158, Richmond Hill, N Y — Virginia 9-6176
Neuberg, Wm D, Co, Inc, 420 Lexington Av, N Y — Oregon 9-2550

★See ad in Catalog Section

VITAMIN CONCENTRATES (cont'd)

Penick, S B, & Co, 50 Church St, N Y — Cortlandt 7-1970
Pfizer, Chas, & Co Inc, 630 Flushing Av, Bklyn, N Y — Evergreen 8-3800
Sterwin Chems, Inc, 1450 Bway, N Y
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo — Talbot 2473
Vitamins Inc, 809 W 58 St, Chicago, Ill — Normal 2727

Associated Concentrates Inc, Woodside, NY — Zeltrex Labs, Reading, Pa
Whitmoyer Labs, Inc, Myerstown, Pa

VULCANIZING AGENTS, RUBBER

Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del — Wilmington 4-5121
Hall, C P, Co, 2510 First Natl Tower Bldg, Akron, O — Jefferson 5175
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

WASHING COMPOUNDS, LEATHER

This group includes so-called neutral soaps, built soaps (those containing added alkali detergents) or new fatty acid derivatives or synthetic detergents. The particular composition will depend upon the effect desired in the leather and the particular type of leather being processed.

Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Drew, E F, & Co Inc, 15 E 26 St, N Y — Murray Hill 6-2800
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421

Magicleaner Co, Newark, N J

WATERPROOFING AGENTS, ASPHALT EMULSION

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Innis, Speiden & Co, 117 Liberty St, N Y — Cortlandt 7-5803
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Asphalt Emulsion Service Inc, N Y — Kuckro Waterproofing Corp, N Y
Ciresit Waterproofing Corp, Chicago, Ill

WATERPROOFING AGENTS, COLORLESS

Two types. One based on waxes in solution in mineral spirits. Second—in varnish form, the solids of which are made up of penetrating, oxidizing oils, and resins, in solution in turpentine, or mineral spirits. Used for sealing porous brick preventing the entrance of excessive moisture.

Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121

Amer Fluresit Co, Cincinnati, O — Kuckro Waterproofing Corp, N Y
Ceresit Waterproofing Corp, Chicago, Ill — Pecora Paint Co, Inc, Phila, Pa
Euclid Chem Co, Cleveland, O — Sullivan Co, Memphis, Tenn

WATERPROOFING AGENTS, ELECTRICAL

Compounds which serve to seal coils of various types already insulated by varnish or enamel. These compounds are generally liquids of a high viscosity and non-impregnating properties serving to effectively seal the complete formed coil with a tough shell of water and moisture vapor proof material. These coatings are of two types, either synthetic rubber or cellulose derivative both particularly formulated to offer minimum change in electrical properties after either long immersion in water or long subjection to high humidity. They dry by evaporation of the volatile solvents generally in a few minutes; from one to three coats are required depending on the nature of the coil.

Ornite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923

WATERPROOFING AGENTS, LEATHER

Preparations used to render leather impervious to water, dampness, etc. Two types are marketed: 1. For direct incorporation in the leather in the processing operation; 2. Applied as a protective coating to finished leather.

Cuprinol Div, Darworth, Inc, Simsbury, Conn — Simsbury 42
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo — Main 4000
Ornite Chem Co, 38 Sansome St, San Fran, Calif — Exbrook 2-0923
Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371

Kepco Chem Corp, Milwaukee, Wis

WATERPROOFING AGENTS, MASONRY

Products, usually in the paste or liquid form, which are added to concrete or mortar mixtures to render them more waterproof for use with mass concrete, cement floors, wall finishes, stucco and cement mortar, for laying up brick and stone work, above and below grade.

Amer Agricultural Chem Co, 50 Church St, N Y — Barclay 7-1400
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Beekman 3-3162
Smith Chem & Color Co Inc, 55 John St, Bklyn, N Y — Main 5-0567
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Digby 4-2600
Witco Chem Co, 295 Madison Av, N Y — Murray Hill 5-6020

Amer Fluresit Co, Cincinnati, O — Kuckro Waterproofing Corp, N Y
Cabot, Samuel, Inc, Boston, Mass — Master Builders Co, Cleveland, O
Ceresit Waterproofing Corp, Chicago, Ill — Metalcrete Corp, Cleveland, O
Euclid Chem Co, Cleveland, O — Pecora Paint Co, Inc, Phila, Pa
Hampden Color & Chem Co, Springfield, Mass — Sika Chem Corp, Passaic, N J
Sullivan Co, Memphis, Tenn

WATERPROOFING AGENTS, RESIN BASE

Barrett Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-0800
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Harrison 6-6200

WATERPROOFING AGENTS, RESIN BASE (cont'd)

Stahl Finish Co, 23 Caller St, Peabody, Mass — Peabody 371

Price Fire & Water Proofing Co, Poughkeepsie, N Y — Technical Chem Corp, Bethel, Conn

WATERPROOFING AGENTS, TEXTILE

Specialized compounds which make fabrics water-tight; usually formulated from fats, waxes, etc., applied in organic solvents, water emulsions in single baths, or aluminum salts and soap applied by the two bath method. Stiffer fabrics, as for example, shower curtains, usually require rubberizing processes, application of plasticized lacquers, and oilskin formulas. No sharp distinction exists between water-proofing and spot-proofing agents.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I — Williams 1-3000
Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Cuprinol Div, Darworth, Inc, Simsbury, Conn — Simsbury 42
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Gartenberg, H, & Co, 412 W Pershing Rd, Chicago, Ill — Boulevard 6400
Geigy Co Inc, 89 Barclay St, N Y — Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y — Watkins 4-0600
Hercules Powder Co, 978 Market St, Wilmington, Del — Rapped 9-2370
Kali Mfg Co, 427 Mayer St, Phila, Pa — Superior 7-8432
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill — Torrence 2-6962
Martyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill — Harrison 6-6200
Nopco Chem Co, Logan & Davis Sts, Harrison, N J — Bergen 4-1700
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J — Exbrook 2-0923
Ornite Chem Co, 38 Sansome St, San Fran, Calif — Beekman 3-3162
Parsons, M W, Imports & Plymouth Organic Labs, Inc, 59 Beekman St, N Y — Bergen 3-4512
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J — Digby 4-2600
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y — Barclay 7-0943
★Titanium Alloy Mfg Div, Natl Lead Co, 111 Bway, N Y — Murray Hill 5-6020
Witco Chem Co, 295 Madison Av, N Y

Bryant Chem Corp, North Quincy, Mass — Sandon Chem Wks, Inc, N Y
Price Fire & Water Proofing Co, Poughkeepsie, N Y — Sun Chem Corp, Long Is City, N Y

WATER PURIFICATION CARBONS

Opalco Lab, 20 E Pittsburgh Blvd, McKeesport, Pa — McKeesport 4-4278
Salomon, L A, & Bro, 216 Pearl St, N Y — Whitehall 3-0817

Elgin Softener Corp, Elgin, Ill — Permutit Co, N Y
Infilco Inc, Chicago, Ill

WATER PURIFICATION COMPOUNDS

Davison Chem Corp, 101 N Charles St, Baltimore, Md — Saratoga 3900
†Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Pigments Dept), Wilmington, Del — Wilmington 4-5121
Du Pont de Nemours, E I, & Co (Inc), (Polychemicals Dept), Wilmington, Del — Wilmington 4-5121

CHEMICALS FOR WATER AND SEWAGE TREATMENT

Aluminum Sulfate	Sodium Fluoride
Aluminum Chloride Solution	Sodium Silicate Solution
Anhydrous Bisulfite of Soda	Sodium Sulfate
Aqua Ammonia	Sodium Sulfite
Crystal Alum, Ammonium	Sulfuric Acid
Crystal Alum, Potassium	Tetrasodium Pyrophosphate
Disodium Phosphate	Trisodium Phosphate

B & A LABORATORY REAGENTS

Offices in Principal Cities—See Directory ad.

BASIC CHEMICALS — FOR AMERICAN INDUSTRY

GENERAL CHEMICAL DIVISION

ALLIED CHEMICAL & DYE CORPORATION

40 RECTOR STREET, NEW YORK 6, N. Y.

Cable Address: "LYCURGUS" NEW YORK, N. Y.

General Chem Div, Allied Chem & Dye Corp, 40 Rector St, N Y — Whitehall 4-2220
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md — Plaza 8500
Phila Quartz Co, 1168 Public Ledger Bldg, Phila, Pa — Market 7-7200
Westvaco Chem Div, Food Mach'y & Chem Corp, 405 Lexington Av, N Y — Murray Hill 9-4920
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J — Lambert 3-3600

Chem Engineering Co, Dallas, Texas — Cloroben Corp, Jersey City, N J
Chem Labs, Houston, Texas — Elgin Softener Corp, Elgin, Ill
Chem Process Co, Redwood City, Calif — Tesco Chems Co, Atlanta, Ga

WATER REPELLENTS, TEXTILE

Preparations which coat fabrics with an extremely fine film; used particularly on hosiery, shedding water without staining. Should be reasonably fast to washing. No sharp differentiation exists between Water Repellents, Waterproofing Agents, though there is a difference in degree of water resistance. See also Water Proofing Agents, Textile

Atlantic Chem Co, 2072 Smith St, Centredale, R I — Centredale 0951
Ciba Co Inc, 627 Greenwich St, N Y — Watkins 4-1122
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del — Wilmington 4-5121

WATER REPELLENTS, TEXTILE (cont'd)

Du Pont de Nemours, E I, & Co (Inc),(Organic Chems Dept), Wilmington, Del	Wilmington 4-5121
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
Maher Color & Chem Co, 355 W Ontario, Chicago, Ill	Superior 7-8432
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill	Torrence 2-6962
Niacet Chems Div, U S Vanadium Corp, 913 Niagara Bldg, Niagara Falls, N Y	Niagara Falls 2-207
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Scher Bros, 519 Getty Av, Clifton, N J	Sherwood 2-5650
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

Amalgamated Chem Corp, Phila, Pa

WAX, DIPPING

Amer Mineral Spirits Co, 153 E 44 St, N Y	Murray Hill 2-6490
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Petroleum Specialties, Inc, 205 E 42 St, N Y	Oregon 9-2310
Petrolite Corp, Ltd, Wax Div, 30 Broad St, N Y	Bowling Green 9-9088
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

Hi-Test Chem Corp, Bklyn, N Y — Natl Wax Co, Chicago, Ill
Hukill Chem Corp, Cleveland, O

WAX, ENGRAVING

Amer Mineral Spirits Co, 153 E 44 St, N Y	Murray Hill 2-6490
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Petroleum Specialties, Inc, 205 E 42 St, N Y	Oregon 9-2310
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

WAX, LAMINATING

Amer Mineral Spirits Co, 153 E 44 St, N Y	Murray Hill 2-6490
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass	Peabody 2442
Boler Petroleum Co, 121 So Broad St, Phila, Pa	Kingsley 5-1323
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
Petroleum Specialties, Inc, 205 E 42 St, N Y	Oregon 9-2310
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
Wax Corp of Amer, 38-40 S 6 St, Bklyn, N Y	Evergreen 8-6455
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

Hukill Chem Corp, Cleveland, O — Oil States Petroleum Co, Inc, N Y
Natl Wax Co, Chicago, Ill — Pyroxylin Prods, Inc, Chicago, Ill

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

WAXES, AMORPHOUS

Bareco Oil Co, P O Box 2009, Tulsa, Okla	Tulsa 3-5174
Boler Petroleum Co, 121 So Broad St, Phila, Pa	Kingsley 5-1323
Chematar Inc, 40 Exchange Pl, N Y	Hanover 2-0364
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Petroleum Specialties, Inc, 205 E 42 St, N Y	Oregon 9-2310
Petrolite Corp, Ltd, Wax Div, 30 Broad St, N Y	Bowling Green 9-9088
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Tilbury Refg Corp, 21-29 Dunham Pl, Bklyn, N Y	Evergreen 8-6455
Wax Corp of Amer, 38-40 S 6 St, Bklyn, N Y	Evergreen 8-6455
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

Hi-Test Chem Corp, Bklyn, N Y — Natl Wax Co, Chicago, Ill
Hukill Chem Corp, Cleveland, O

WAXES, BATTERY

Two classes. First for sealing storage batteries. These are usually combinations of air or oil blown asphalts, pitches, and flux oils. Usually embody maximum adhesiveness, and elasticity to adjust themselves to the two extremes of temperatures, as well as the contraction and expansion of the composition rubber cases in general use. Dry battery seals are usually based on resins, treated or untreated, in combination with silica, talc, clays, or other mineral fillers. Used in sealing batteries for flashlights, hearing aids, bell ringing, and starting marine motors.

Barclay Chem Co, Inc, 75 Varick St, N Y	Worth 4-5120
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

Revson, R F, Co, N Y

WAXES, CABLE

Specialized products having a natural, mineral or synthetic wax base, and used for lubrication of chains, cables, etc., where maximum protection against water action is desirable.

Boler Petroleum Co, 121 So Broad St, Phila, Pa	Kingsley 5-1323
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

WAXES, CANNING

Preparations, usually of the paraffin wax type, with low-melting points used in canning and preserving to form an air-tight shield to prevent formation of mold, etc., with consequent deterioration and spoilage of the contents.

Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

WAXES, CASTING

Special waxes used by electrotypers for making wax molds of the original type. For making large editions the graphite wax mold is hung in a nickel bath first and then coated with copper. Casting waxes are used similarly in the manufacture of phonographic records; also employed by sculptors; also in a wide variety of situations where a mold is first necessary before electroplating operations are performed.

Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

Linick Chem Co, Chicago, Ill

WAXES, ELECTROTYPERS'

A form of molding wax used to make type impressions for metal casting. See CHEMICAL INDUSTRIES, Vol. 34, No. 3, p. 223, for tests on molding waxes.

Boler Petroleum Co, 121 So Broad St, Phila, Pa	Kingsley 5-1323
Butcher, L H, Co, 3628 E Olympic Blvd, Los Angeles, Calif	Angelus 2-4104
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Petrolite Corp, Ltd, Wax Div, 30 Broad St, N Y	Bowling Green 9-9088
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Salomon, L A, & Bro, 216 Pearl St, N Y	Whitehall 3-0817
Tilbury Refg Corp, 21-29 Dunham Pl, Bklyn, N Y	Evergreen 8-6455
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

Norco Prods Co, Phila, Pa

WAXES, EMULSIFYING

Emulsifying waxes in general are the stearic and palmitic acid esters of glycerin and the glycols. Amines and ammonia are also used occasionally as bases for the esterification. While they are not true waxes according to the generally accepted definition of waxes, they exhibit many wax-like properties. They are waxy in appearance and feel, and have a fairly sharp melting point. They blend easily with other waxes, oils, etc. They are, however, dispersible in hot water, forming on cooling, while stirring, stable emulsions of varying consistency. They are also excellent emulsifying agents for waxes, oils, resins and solvents, particularly for the manufacture of cream and paste emulsions.

Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Dalton-Cooper Inc, 200 W 34 St, N Y	Longacre 4-2910
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Goldschmidt Chem Corp, 153 Waverly Pl, N Y	Chelsea 3-4792
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Michel, M, & Co, Inc, 90 Broad St, N Y	Digby 4-3878
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Petrolite Corp, Ltd, Wax Div, 30 Broad St, N Y	Bowling Green 9-9088

WAXES, EMULSIFYING (cont'd)

Robinson-Wagner Co, 110 E 42 St, N Y	Murray Hill 3-1184
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Amer Lignite Prods Co, Ione, Calif	Phoenix Oil Prods Corp, Newark, N J
Colloida Inc, Newark, N J	Sun Chem Corp, Long Is City, N Y
Nor-Ed Chem Co, Yorkshire, N Y	Windsor Wax Co, Inc, Hoboken, N J

WAXES, FIRE RESISTANT

†Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

WAXES, FLOOR

Preparations used to provide a protective coating and lustrous finishes, to wooden floors, linoleum, rubber tile, etc. See also Waxes, Liquid.

Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Du Pont de Nemours, E I, & Co, (Inc), (Fabrics & Finishes Dept), Wilmington, Del	Wilmington 4-5121
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill	Torrence 2-6962
Petrolite Corp, Ltd, Wax Div, 30 Broad St, N Y	Bowling Green 9-9088
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J	Sherwood 2-4910
Wyandotte Chems Corp, J B Ford Div, Wyandotte, Mich	Wyandotte 1700

Crude Refined **WAXES** Bleached Powdered

Natural Waxes of All Descriptions

and

Special Compounds Made To Order

WAXES FOR PROTECTION OF:

Textiles, metal, leather, wood, paper, rubber, paint, electrical equipment and wire.

WAXES FOR PROTECTION AGAINST:

Moisture, Oxidation, Corrosion, Wear.

ALSO WAXES FOR:

Beautifying, casting, masking, impressions, sealing, canning, insulating, precision molding, lubricants.

FRANK B. ROSS CO., INC.

6-10 ASH STREET JERSEY CITY 4, N. J.

Telephone: Bergen 3-4512

Bruce, E L, Co, Memphis, Tenn
Buckingham Wax Co, Long Is City, N Y
Chem Supply Co, Cleveland, O
Diversey Corp, Chicago, Ill
Eagle Soap Corp, Huntington, Ind
George Chem Co, Boston, Mass
Gerson Stewart Corp, Cleveland, O
Hollingshead, R M, Corp, Camden, N J
Huntington Labs, Huntington, Ind
Johnson, S C, Co, Racine, Wis
Master Builders Co, Cleveland, O
Oil-Kraft Inc, Cincinnati, O
Pingo Co, Boston, Mass
Robbins, Geo B, Disinfectant Co, Inc, Cambridge, Mass
Royal Soap & Chem Co, Los Angeles, Calif
Technical Chem Corp, Bethel, Conn
Uncle Sam Chem Co, Inc, N Y
U S Sanitary Specialties Corp, Chicago, Ill
Vestal Chem Co, St Louis, Mo
Warren Refg & Chem Co, Cleveland, O
Windsor Wax Co, Inc, Hoboken, N J

WAXES, FOOD COATING

Advance Solvents & Chem Corp, 245 5 Av, N Y	Murray Hill 9-2620
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Petrolite Corp, Ltd, Wax Div, 30 Broad St, N Y	Bowling Green 9-9088
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Natl Wax Co, Chicago, Ill	Windsor Wax Co, Inc, Hoboken, N J
Pyroxylin Prods, Inc, Chicago, Ill	

Buyers of Surplus

Chemicals • Oils • Waxes
Gums • Colors • Drugs
Solvents

Immediate Purchases Made Regardless of Quantity or Location

Barclay CHEMICAL COMPANY, INC.

77 VARICK STREET NEW YORK 13, N. Y. • WO 4-5120

WAXES, INSULATING

Mechanical mixtures of waxes, asphalts, stearine pitches, petrolatums, oils and resins—available in a wide range of softening points, degree of hardness, and other desired physical characteristics. Finished compounds embody high dielectric strength, and moisture, acid, alkali, or oil resistance. Used for impregnating electrical coils, potting and dip-sealing of condensers and transformers.

Baker Castor Oil Co, 119 Bway, N Y	Digby 9-0500
Boler Petroleum Co, 121 So Broad St, Phila, Pa	Kingsley 5-1323
Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Tilbury Refg Corp, 21-29 Dunham Pl, Bklyn, N Y	Evergreen 8-6455
Ziegler, G S & Co, 233 Bway, N Y	Worth 4-8383
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907
Hi-Test Chem Corp, Bklyn, N Y	Oil States Petroleum Co, Inc, N Y

WAXES, LIQUID BULK

Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill	Torrence 2-6962
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J	Sherwood 2-4910
Bruce, E L, Co, Memphis, Tenn	McCann Chem Co, Louisville, Ky
Grand Rapids Wood Finishing Co, Grand Rapids, Mich	Technical Chem Corp, Bethel, Conn
Johnson, S C, Co, Racine, Wis	U S Sanitary Specialties Corp, Chicago, Ill
	Windsor Wax Co, Inc, Hoboken, N J

WAXES, PASTE BULK

Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill	Torrence 2-6962
Sherwin-Williams Co, Pigment Chem & Color Div, 295 Madison Av, N Y	Lexington 2-5806
Ultra Chem Wks Inc, 2 Wood St, Paterson, N J	Sherwood 2-4910
Bruce, E L, Co, Memphis, Tenn	McCann Chem Co, Louisville, Ky
Johnson, S C, Co, Racine, Wis	Windsor Wax Co, Inc, Hoboken, N J

WAXES, SEALING

Specially formulated compounds largely used on paper and bottle caps, also to seal valuable documents and packages for storage and shipment. Term sealing wax is largely a misnomer for few commercial products marketed now actually contain any wax, or if they do, its use is only that of a filler. Sealing waxes are now generally prepared from plasticized resins with inorganic fillers and pigments. Primary requirements are smoothness of texture, brilliancy of gloss, absence of obnoxious odors upon melting, wide range of softening points, rehardening without the appearance of a rubbery behavior, retention of color and fracturing without crumbling. Generally there are two types:—1. To be heated over a direct flame; 2. Bulk to be heated in pots, electric or gas.

International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907
Higgins Ink Co, Inc, Bklyn, N Y	Shields Buying Service, N Y
Hi-Test Chem Corp, Bklyn, N Y	

WAXES, SOLUBLE

Compounds of vegetable waxes in colloidal form capable of suspension in water in all proportions. Used alone or in combination with starch or size to obtain stiffness and lustre in the cotton finishing plant or laundry. Also preventing sticking to calenders or irons.

Amer Cyanamid Co, Industrial Chems Div, 30 Rockefeller Plaza, N Y	Circle 7-0100
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Kali Mfg Co, 427 Moyer St, Phila, Pa	Regent 9-2370
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747

★See ad in Catalog Section

WAXES, SOLUBLE (cont'd)

Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J	Prescott 7-5000

Arabol Mfg Co, N Y

FRED L. BROOKE CO.
3340 N. Halsted St.
Chicago 13, Ill.

CARNAUBA I. G. TYPES **WAXES** CERESINE OZOKERITE
GRaceland 7-3030

WAXES, SYNTHETIC

Usually mixtures of fatty alcohols specially compounded and treated. Uses: in wax emulsions, in super-fatting of soaps, in manufacture textile oils and finishes, in fat liquors, cosmetic creams, in polishes of various kinds, in waxing threads and yarns.

Alrose Chem Co, 180 Mill St, Cranston, Providence, R I	Williams 1-3000
Amer Resinous Chems Corp, 103 Foster St, Peabody, Mass	Peabody 2222
Boler Petroleum Co, 121 So Broad St, Phila, Pa	Kingsley 5-1323
Brooke, Fred L, Co, 3340 N Halsted St, Chicago, Ill	Graceland 7-3030
★Carbide & Carbon Chems Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Concord Chem Co, Moorestown, N J	Moorestown 9-1100
Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Diehl, Wm, & Co, 330 W 42 St, N Y	Bryant 9-5211
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
General Wax Refg Co, 386 4 Av, N Y	Murray Hill 6-6791
Glyco Prods Co, Inc, 26 Court St, Bklyn, N Y	Main 4-1760
Heyden Chem Corp, 393 7 Av, N Y	Pennsylvania 6-9000
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Kessler Chem Co, Inc, State Rd & Cottman Av, Phila, Pa	Devonshire 8-0800
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Tilbury Refg Corp, 21-29 Dunham Pl, Bklyn, N Y	Evergreen 8-6455
Witco Chem Co, 295 Madison Av, N Y	Murray Hill 5-6020

Technical Chem Corp, Bethel, Conn

SYNTHETIC WAXES
High Melting, Impregnant, Coating, Anti-Blocking, and Adhesive Waxes
ACRAWAX C
Send for "Synthetic Waxes"
GLYCO PRODUCTS COMPANY, INC.
26 COURT ST., BROOKLYN 2, N.Y.

WAXES, TANNERS'

Certain waxes are used by tanners both in the tanning process and and to give pliability. They are selected with a view of producing special results and to impart certain characteristics to the leather. Waxes are in certain cases, used as the emulsifying agent in fat-liquoring formulation, and in the compounding of softening and stuffing greases; also "wax resists" are employed in the production of antique and two-toned leathers.

Cornelius Prods Co, 386 4 Av, N Y	Murray Hill 6-6791
Distributing & Trading Co, Inc, 444 Madison Av, N Y	Eldorado 5-0776
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600

WAXES, TANNERS, (cont'd)

Ultra Chem Wks Inc, 2 Wood St, Paterson, N J	Sherwood 2-4910
Zophar Mills Inc, 116 26 St, Bklyn, N Y	South 8-0907

WAXES, TEXTILE

Specialized products employed on fibrous materials, such as cotton, wool, silk, rayon, furs, etc., to render such fibres water repellent and to increase the permanence of the fibre by forming protective coatings; also waxes of various types used in spinning operations to cut down thread breakage.

Boler Petroleum Co, 121 So Broad St, Phila, Pa	Kingsley 5-1323
Houghton, E F, & Co, 303 W Lehigh Av, Phila, Pa	Regent 9-7100
Industrial Raw Materials Corp, 52 Wall St, N Y	Digby 4-1500
International Wax Refg Corp, 4415 3 Av, Bklyn, N Y	South 8-1717
Mamaroneck Chem Corp, 442 Waverly Av, Mamaroneck, N Y	Mamaroneck 9-4747
Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill	Torrence 2-6962
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Penick, S B, & Co, 50 Church St, N Y	Cortlandt 7-1970
Ross, Frank B, Co Inc, 6-10 Ash St, Jersey City, N J	Bergen 3-4512
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200

Colloids Inc, Newark, N J — Joy Chem Co, Pawtucket, R I

WEED KILLERS

Compounds to eradicate weeds on lawns, railroad right-of-ways, tennis courts, garden paths, and in pastures and farm land.

Berk, F W, & Co, Inc, 420 Lexington Av, N Y	Lexington 2-5959
Chapman Chem Co, Dermon Bldg, Memphis, Tenn	37-8316
Chem Insecticide Corp, 57 13 St, Bklyn, N Y	South 8-7141

WEED KILLERS
BASIC MANUFACTURERS AND FORMULATORS
2,4—D
2,4,5—T
Pentachlorphenol
CHEMICAL INSECTICIDE CORP.
57 13th ST. BROOKLYN 15, N. Y. SOuth 8-7141

Chem Service Corp, 92A Beaver St, N Y	Hanover 2-6970
City Chem Corp, 132 W 22 St, N Y	Watkins 9-2723
Cole Labs Inc, 42-25 9 St, Long Is City, N Y	Stillwell 6-1200
Doe & Ingalls Inc, 56 Garden St, Everett Sta, Boston, Mass	Everett 7-4610
Dow Chem Co, Midland, Mich	Midland 500
Du Pont de Nemours, E I, & Co (Inc), (Grasselli Chems Dept), Wilmington, Del	Wilmington 4-5121
Edwal Labs, Inc, Ringwood, Ill	Richmond 5-5919
Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
Innis, Speiden & Co, 117 Liberty St, N Y	Cortlandt 7-5803
Kelker Chem Wks Inc, 80 Lister Av, Newark, N J	Market 2-5458
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif	Tucker 2421
Mathieson Chem Corp, Mathieson Bldg, Baltimore, Md	Plaza 8300
★Monsanto Chem Co, 1700 S 2 St, St Louis, Mo	Main 4000
National Oil & Supply Co, 172 Frelinghuysen Av, Newark, N J	Bigelow 3-0700
Pan Amer Refg Corp, 122 E 42 St, N Y	Lexington 2-4322
Pittsburgh Plate Glass Co, Columbia Chem Div, 5 Av at Bellefield, Pittsburgh, Pa	Mayflower 1-2960
Powell, John, & Co Inc, 1 Park Av, N Y	Murray Hill 5-1770
Riverdale Chem Co, 324 E 147 St, Harvey, Ill	Riverdale 1880
Rohm & Haas Co, Washington Sq, Phila, Pa	Lombard 3-9860
Socony-Vacuum Oil Co, Inc, Chem Prods Div, 26 Bway, N Y	Digby 4-2600
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200
★Stauffer Chem Co, 420 Lexington Av, N Y	Oregon 9-0200
Stieh, W M, & Co, Inc, 20 Vesey St, N Y	Worth 4-4265
Tennessee Prods & Chem Corp, Nashville, Tenn	Nashville 5-8333
Thompson-Hayward Chem Co, 2915 Southwest Blvd, Kansas City, Mo	Talbot 2473
Turner, Joseph, & Co, Ridgefield, N J	Chickering 4-7531
Wollen Chem & Supply Co, 126 6 Av, Paterson, N J	Lambert 3-3600
Wood-Treating Chems Co, 5137 Southwest Av, St Louis, Mo	Laclede 2201

Cooper's Creek Chem Corp, W Conshohocken, Pa
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Marlyn Chem Co, Inc, 156 & Forsythe, Calumet City, Ill	Torrence 2-6962
Nopco Chem Co, Logan & Davis Sts, Harrison, N J	Harrison 6-6200
Onyx Oil & Chem Co, 190 Warren St, Jersey City, N J	Bergen 4-1700
Standard Chem Prods Inc, 1301 Jefferson St, Hoboken, N J	Hoboken 3-1200

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Ultra Chem Whs Inc, 2 Wood St, Paterson, N J — Sherwood 2-4910
Wolf, Jacques, & Co, 350 Lexington Av, Passaic, N J — Prescott 7-5000
Eastern Color & Chem Co, Providence, R I — Laurel Soap Mfg Co, Phila, Pa

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Eaton Chem & Dyestuff Co, 1490 Franklin St, Detroit, Mich	Woodward 2-5216
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Geigy Co Inc, 89 Barclay St, N Y	Barclay 7-3270
General Dyestuff Corp, 435 Hudson St, N Y	Watkins 4-0600
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DRUGGISTS RESEARCH BUREAU,
S.: E. L. Newcomb, 330 W. 42nd st., N. Y. City.
Chairman: John W. Dargavel, 205 W. Wacker Dr., Chicago, Ill.

DRY COLOR MANUFACTURERS ASSOCIATION,
S.: H. B. Sweatt, 55 W. 42nd st., N. Y. City.

ELECTROCHEMICAL SOCIETY, INC., THE,
P.: Dr. Alfred L. Ferguson.
S.: Dr. Henry B. Linford, 235 W. 101st, N. Y. City.

ESSENTIAL OIL ASSOCIATION OF THE U. S. A.,
P.: H. P. Wesemann.
M.-D.: R. C. Schlotterer, 220 Fifth av., N. Y. City.

FEDERAL WHOLESALE DRUGGISTS' ASSOCIATION, INC.,
P.: Glen T. Helgren, Ellicott Drug Co., Buffalo, N. Y.
Exec. S.: Ray C. Schlotterer, 220 Fifth Ave., N. Y. City.

FEDERATION OF PAINT & VARNISH PRODUCTION CLUBS,
P.: A. T. Montanye, Pratt & Lambert Inc., 75 Tonawanda st., Buffalo, N. Y.
S.: V. C. Bidlack, 1524 Chestnut st., Phila., Pa.

FIRE EXTINGUISHER MANUFACTURERS' ASSOCIATION, INC.,
Commissioner: R. Kennedy Hanson, 1107 Clark Bldg., Pittsburgh, Pa.

GLYCERINE PRODUCERS ASSN. OF AMER.,
Manager: Mr. Roy W. Peet, 295 Madison av., N. Y. City.

GYPSUM ASSOCIATION,
S.-Gen. Mgr.: Lloyd H. Yeager, 20 N. Wacker Dr., Chicago, Ill.

INSTITUTE OF MAKERS OF EXPLOSIVES,
S.-T.: C. Stewart Comeaux, 343 Lexington ave., N. Y. City

INTERNATIONAL ACETYLENE ASSOCIATION,
P.: A. J. Fausek, Modern Engineering Co., 3411 Pine Blvd., St. Louis, Mo.
S.: H. F. Reinhard, 30 E. 42nd st., N. Y. City.

LIQUEFIED PETROLEUM GAS ASSOCIATION INC.,
P.: S. G. Darling, Darlings Inc., Pratt, Kansas.
S.: Mr. Arthur C. Kreutzer, 11 South LaSalle st., Chicago, Ill.

MAGNESIA INSULATION MANUFACTURERS ASSOCIATION, THE
P.: Ernest Muehleck, Keasbey & Mattison Co., Ambler, Pa.

MANUFACTURING CHEMISTS ASSOCIATION INC.,
S.: M. F. Cross, Jr., 246 Woodward Bldg., Washington, D. C.

NATIONAL ACADEMY OF SCIENCES,
P.: Alfred N. Richards.
Exec. S.: Raymond L. Zwemer, 2101 Constitution av., Washington, D. C.

NATIONAL ASSN. OF CORROSION ENGINEERS,
P.: R. B. Mears, Carnegie-Illinois Steel Corp., Pittsburgh, Pa.
Exec. S.: A. B. Campbell, 919 Milam Bldg., Houston, Texas

NATIONAL ASSOCIATION OF MANUFACTURERS,
Mgr. Dir.: Earl Bunting, 19 W. 49th st., N. Y. City.

NATIONAL ASSN. OF PRINTING INK MAKERS,
P.: Engelbert Smith, 464 N. Fifth st., Phila., Pa.
V. P.: C. M. Reed, 645 Sansome st., San Francisco, Calif.

NATIONAL ASSOCIATION OF PURCHASING AGENTS,
S.: G. A. Renard, 11 Park Pl., N. Y. City.

NATIONAL ASSOCIATION OF RETAIL DRUGGISTS, THE,
S.: John W. Dargavel, 205 W. Wacker Dr., Chicago, Ill.

NATIONAL COTTONSEED PRODUCTS ASSOCIATION, INC.,
Exec. V. P.: T. H. Gregory, Sterick Bldg., Memphis, Tenn.

NATIONAL FARM CHEMURGIC COUNCIL, INC.,
P.: Wheeler McMillen, Farm Journal & Farmer's Wife, Philadelphia, Pa.

NATIONAL FERTILIZER ASSOCIATION, THE
P.: Harry B. Baylor, International Minerals & Chemical Corp., Chicago, Ill.
S.: Charles J. Brand, 616 Investment Bank Bldg., Washington, D. C.

NATIONAL LIME ASSOCIATION,
P.: W. E. Wing.
Gen. Mgr.: Robert S. Boynton, 927 15 st., N. W., Washington, D. C.

NATIONAL LUBRICATING GREASE INSTITUTE,
P.: B. G. Symon.
Exec. S.: Harry F. Bennetts, 4638 Mill Creek Parkway, Kansas City, Mo.

NATIONAL PAINT, VARNISH & LACQUER ASSOCIATION, INC.,
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NATIONAL PEST CONTROL ASSOCIATION, INC.,
P.: V. H. Montgomery, 1161 Post st., San Francisco, Calif.
S.: William O. Buettner, 3019 Ft. Hamilton Parkway, Brooklyn, N. Y.

NATIONAL RENDERERS ASSOCIATION,
S.: F. B. Wise, 1424 K st., N. W., Washington, D. C.

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Chairman: Detlev W. Bronk, 2101 Constitution ave., Washington, D. C.

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P.: R. G. Houghtlin, 3818 Board of Trade Bldg., Chicago, Ill.
S.: W. L. Shellabarger, Shellabarger Mills, Inc., Citizens Bldg., Decatur, Ill.

NATIONAL WHOLESALE DRUGGISTS' ASSOCIATION, THE,
S.: E. Allen Newcomb, 330 W. 42nd st., N. Y. City.

NORTHEASTERN WOOD UTILIZATION COUNCIL
P.: Halsey M. Hicks, R. F. D.-Brattleboro, Vt.
S.: Edgar L. Heermance, 839 Chapel st., P.O. Box 1577, New Haven, Conn.

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PACKAGING INSTITUTE, INC.,
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Exec. Dir.: Dr. L. V. Burton, 342 Madison ave., N. Y. City.

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S.-T.: Helen L. Stratton, 342 Madison ave., N. Y. City.

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P.: D. S. Frederick.
Gen. Mgr.: F. H. Carman, Tower Bldg., Washington, D. C.

PORTLAND CEMENT ASSOCIATION,
P.: Frank T. Sheets.
V. P.: C. D. Franks, 33 W. Grand av., Chicago, Ill.

PROCESSING OILS AND CHEMICALS ASSOCIATION, INC.,
S.: H. B. Sweatt, 55 W. 42nd st., N. Y. City.

PROPRIETARY ASSOCIATION, THE,
P.: Walter R. Beardsley, Miles Laboratories, Inc., Elkhart, Ind.
S. T.: A. K. Barta, 810 18th st., N.W., Washington, D. C.

REFRIGERATION SERVICE ENGINEERS SOCIETY,
S.: H. T. McDermott, 433 N. Waller ave., Chicago, Ill.

RESEARCH ASSOCIATES
P.: Ernest L. Little, Sta. A, Box 243, Columbus, O.

RUBBER MANUFACTURERS ASSOCIATION, INC., THE,
P.: A. L. Viles, 444 Madison ave., N. Y. City.

RUBBER RECLAIMERS ASSOCIATION, INC., THE,
P.: C. R. Shaffer, Box 2667, Akron, Ohio.
S.-T.: Charles T. Jansen, 250 W. 57th st., N. Y. City

SALESMEN'S ASSOCIATION OF THE AMERICAN CHEMICAL INDUSTRY, INC., THE,
P.: Albert T. Loeffler, Monsanto Chemical Co., 445 Park av., N. Y. City.
S.: Edward A. Bush, Bush Aromatics Inc., 136 Liberty st., N. Y. City.

SCIENTIFIC APPARATUS MAKERS OF AMERICA,
P.: John M. Roberts, Room 3120, 20 N. Wacker Dr., Chicago, Ill.

SOCIETY OF AUTOMOTIVE ENGINEERS, INC.,
Gen. Mgr. & S.: John A. C. Warner, 29 W. 39th st., N. Y. City

SOCIETY OF BIOLOGICAL CHEMISTS,
P.: Richard W. Jackson, Northern Regional Research Lab., U. S. Dept. of Agriculture, 825 N. University st., Peoria, Ill.

SOCIETY OF CHEMICAL INDUSTRY,
Chairman: Gustavus J. Esselen, Esselen Labs., 857 Boylston st., Boston, Mass.

SOCIETY OF PLASTICS INDUSTRY, INC.,
Ex. V.-P.: William T. Cruse, 295 Madison av., N. Y. City.

SODIUM SILICATE MANUFACTURERS INSTITUTE,
S.: J. C. Russell, P. O. Box 281, Wm. Penn Annex, Philadelphia, Pa.

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P.: Elvin H. Killheffer, R. D. 4, West Chester, Pa.
S.: S. Stewart Greff, 41 E. 42 st., N. Y. City.

TANNERS' COUNCIL OF AMERICA,
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S.: J. Louis Nelson, 100 Gold st., N. Y. City.

TECHNICAL ASSOCIATION OF THE PULP & PAPER INDUSTRY,
P.: A. E. Bachmann.
S.: R. G. Macdonald, 122 E. 42nd st., N. Y. City.

U. S. ALKALI EXPORT ASSOCIATION, INC.,
P.: E. V. Finch, 11 B'way, N. Y. City.

U. S. SHELLAC IMPORTERS ASSOCIATION, INC.,
P.: Adrian E. Jacobs.
S.: George E. Ashby, 155 John st., N. Y. City.

WATER & SEWAGE WORKS MANUFACTURERS ASSOCIATION, INC.
P.: Reginald F. Hayes.
S.-Mgr.: Arthur T. Clark, 170 B'way., N. Y. City

CHEMICAL PRICES

Section
Range of Quotations*
1939-1949

Heavy Chemicals, Organic Intermediates, Dyestuffs, Textile and Leather Chemicals, Oils, Fats and Waxes, Fertilizer Materials, Paint, Varnish, and Lacquer Materials

The range of prices is not "bid and asked" but high and low

Heavy Chemicals	1939		1942		1947		1948		1949	
	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.
Acid, acetic, glac. 99.5%	$5.50	$5.00	$6.93	$6.25	$8.12	$7.62	$9.12	$7.62	$8.60	$7.50
Chromic, 99%	.15½	.15½	.16½	.16½	.21¾	.20	.25½	.21¾	.25½	.25½
Formic, 90%	.10½	.10½	.10½	.10½	.13	.12½	.14	.12½	.14	.13½
Hydrofluoric, 30%	.07	.06	.06	.06	.09	.08	.09	.08	.09	.08½
Muriatic, 18°	1.15	1.15	1.15	1.15	1.70	1.50	1.65	1.50	1.65	1.65
Nitric, 36°	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Oxalic	.10¾	.10¾	.11¼	.11¼	.13½	.13	.14½	.13¼	.14½	.14¼
Sulphuric, 66°	16.50	16.50	16.50	16.50	16.50	15.00	17.00	15.00	17.00	17.00
Tannic, tech.	.40	.40	.71	.71	.69	.68	.69	.68	.69	.69
Alum, ammonia, gran.	3.50	3.15	4.00	4.00	4.00	4.00	4.00	3.80	3.80	3.80
Alumina sulphate, com.	1.15	1.15	1.15	1.15	1.30	1.15	1.50	1.15	1.50	1.50
Ammonia, anhy., com.	.04½	.04½	.05	.05	.03075	.03075	.0425	.0295	.03875	.03750
Antimony, needle, Chin.	.20	.12	.20	.19	No price		No price		No price	
Arsenic, white	.03	.03	.04	.04	.06	.06	.06¼	.06	.06	.05½
Barium chloride, tech.	77.00	77.00	77.00	77.00	85.00	80.00	90.00	80.00	100.00	90.00
Bleaching powder	2.00	2.00	2.50	2.25	3.75	2.75	4.25	3.75	4.50	4.25
Calcium acetate	1.90	1.65	3.00	3.00	4.00	3.00	4.00	3.00	4.00	3.00
Arsenate	.06½	.06½	.07	.06½	.09½	.09	.10½	.09½	.10½	.09½
Chloride, flake	22.00	22.00	18.50	18.50	22.00	18.50	22.00	21.50	22.00	22.00
Chlorine, liquid	2.00	1.75	1.75	1.75	2.25	2.00	2.40	2.25	2.40	2.40
Cobalt, oxide, black	1.84	1.67	1.34	1.84	1.27½	1.16	1.30	1.27½	1.38	1.27½
Copper carbonate	.169	.14	.19½	.18	.26	.24	.26¼	.24	.25¼	.21
Sulphate, 99%	4.75	4.10	5.15	5.15	7.60	7.10	8.10	7.60	8.10	7.00
Copperas	16.00	14.00	14.00	14.00	14.00	14.00	17.00	17.00	17.00	17.00
Epsom salt, tech.	1.80	1.80	1.80	1.80	2.80	2.05	2.80	2.80	2.30	2.15
Glauber's salt, dom.	.95	.95	1.05	1.05	1.75	1.25	2.00	1.75	2.00	2.00
Lead acetate, wh., brok.	.11	.10	.12½	.12	.18½	.17	.27	.18½	.27¾	.19¾
Arsenate	.11	.10	.11	.09	.21¾	.20	.31½	.21¾	.31½	.27
Magnesia, cal., tech.	.26	.26	.26	.26	.33	.29	.32	.29	—	—
Magnesium chloride	32.00	32.00	32.00	32.00	40.00	37.00	40.00	40.00	40.00	40.00
Nickel salt	.13	.13	.13	.13	.14½	.14	.18	.14½	.18	.18
Phosphorous, red, export	.40	.40	.40	.40	.44	.40	.40	.34	.40	.40
Potash caustic, solid	.06½	.03½	.06½	.06½	.07½	.06¾	.07½	.07¼	.0755	.0755
Potassium carbonate, cal.	.06½	.06½	.06½	.06½	.07½	.07¼	.07½	.07½	.078	.078
Chlorate, powd.	.10	.08½	.09¾	.09¾	.11½	.09	.09	.09	.09	.09
Saltpeter, gran.	6.50	6.50	8.20	8.20	8.20	8.20	9.25	8.00	9.25	9.25
Soda ash, 58% light	1.05	1.05	1.05	1.05	1.30	1.20	1.40	1.30	1.40	1.25
Caustic, solid	2.30	2.30	2.30	2.30	2.85	2.50	3.05	2.85	3.05	3.05
Sodium chlorate, dom.	.06¼	.06¼	.06¼	.06¼	.07¼	.06¾	.07¼	.07¼	.07½	.07½
Phosphate, tribas	2.25	2.00	2.70	2.70	3.50	2.70	3.50	3.40	3.75	3.75
Silicofluoride	.05¾	.04	.12	.05	.07½	.06¼	.06¼	.05	.05	.04
Sulphur, crude, mines	16.00	16.00	16.00	16.00	18.00	16.00	18.00	18.00	18.00	18.00
Tin, crystals	.40	.36½	.39	.39	.92	.72	.71½	.60	.71½	.59

Organic Intermediates										
	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.
Acid, benzoic, tech.	.43	.43	.43	.43	.43	.43	.43	.43	.43	.43
Cresylic, high-boil	.68	.49	.81	.81	1.42	.90	1.55	1.42	1.30	.80
Sulphanilic, tech.	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17
Tobias	.55	.55	.55	.55	.62	.60	.55	.52	.65	.65
Alphanaphthylamine	.32	.32	.32	.32	.35	.35	.42	.35	.42	.41
Anilin oil	.15	.15	.15	.15	.13	.11	.15	.13	.15	.14
Benzol, 90%	.16	.16	.15	.15	.21½	.17	.21	.21	.22	.20
Creosote oil, crude	.13½	.13½	.15½	.15½	.19½	.17	.21½	.16	.19½	.14
Dinitrobenzene	.18	.18	.18	.18	.18	.16	.23	.16	.16	.16
Dinitrophenol	.22	.22	.22	.22	.22	.22	.32	.22	.28	.28
Diphenylguanidin	.35	.35	.35	.35	.35	.35	.40	.35	.40	.40
Naphthalene, crude, dom.	2.25	2.25	2.75	2.50	4.50	3.50	6.25	5.75	7.50	5.75
Nitrobenzene	.07	.07	.07	.07	.07½	.07	.09½	.07	.08½	.08
Paradichlorobenzene	.11	.11	.11	.11	.12½	.11	.12½	.11½	.11	.11
Phenol, USP	.14½	.13	.12½	.12½	.11½	.10½	.12½	.11½	.1250	.1250
Phthalic anhydride	.14½	.14½	.14½	.14½	.17½	.14½	.22½	.19½	.22½	.22½
Resorcinol, tech.	.75	.75	.68	.68	.68	.68	.75	.68	.75	.74
Tar acid oil, 15%	.22	.21	.27½	.27½	.43	.26½	.45	.43	.38	.33
Toluol, pure	.30	.27	.33	.33	.30	.23	.30	.23	.29	.19
Xylidin, mixed	.35	.35	.35	.35	.38	.35	.50	.38	.50	.45
Xylol, com.	.27	.26	.27	.27	.30	.25	.30	.23	.25	.23

Dyestuffs, Textile and Leather Chemicals										
	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.
Albumen, egg, edible	.75	.60	1.80	1.73	3.00	1.70	2.00	2.57	2.44	1.87
Annatto seed	.07½	.06½	.06½	.06	.19	.14	.20	.19	.20	.18
Chestnut ext., solid	.01¾	.01¾	.02¾	.02¼	.0425	.0425	.0425	.0425	.0465	.0438
Cochineal, gray	.37	.35	.37	.37	.67	.65	.68	.67	.68	.67
Cutch	.04¼	.04	.05¼	.04¾	.12	.12	.09½	.09	.08½	.07
Dextrin, corn, white	3.50	3.20	4.00	3.95	5.00	5.19	3.25	6.63	6.84	6.56
Egg yolk, dried, dom.	.67	.59	1.00	.87	1.20	1.15	1.15	.91	1.40	.93
Fustic ext., cryst	.24	.22	.24	.16	.42½	.41	.42½	.42½	.42½	.42½
Gambier, common	.07	.03¾	No stocks		No stocks		No stocks		No stocks	
Hemlock, ext., 25% tan	.03	.02½	.0385	.03½	No stocks		No stocks		No stocks	

Data for this section supplied through the courtesy of OIL, PAINT AND DRUG REPORTER

Chemical Prices: 1939-1949

Dyestuffs, Textile and Leather Chemicals (cont'd)	1939 H.	1939 L.	1942 H.	1942 L.	1947 H.	1947 L.	1948 H.	1948 L.	1949 H.	1949 L.
Hydrogen perox., 27%	.20	.20	.16	.16	.15½	.15½	.17½	.15½	.17½	.17½
Indigo, synthetic	.16½	.16½	.16½	.16½	.16½	.16½	.19	.16½	.23	.16½
Logwood ext., liq., No. 1	.10½	.09½	.12½	.12½	.18½	18.	.18½	.18½	.18½	.18½
Myrobalans, J2	27.50	17.00	60.00	60.00	52.00	39.00	47.00	46.00	53.00	50.00
Nutgalls, Aleppo	.29	.23	No price		.52	.50	.50	.50	.50	.43
Oak ext., 25% tannin	.02¾	.02¾	.0385	.02	No stocks		No stocks		No stocks	
Potassium bichromate	.08⅞	.08⅞	.09¾	.09¾	.11½	.10¾	.12¾	.12¼	.12¾	.12¾
Quebracho ext., liq., 35%	.03½	.02½	.05¾	.04½	.07½	.06	.09	.0655	.08¼	.07¼
Sago flour	.04	.02½	.05	.04½	.09½	.07	.08¾	.07	.08	.05
Sodium bichromate	.06⅝	.05⅞	.07⅝	.07⅝	.09	.08¾	.10	.09	.10½	.10
Hydrosulphite	.16	.16	.17	.17	.19	.18½	.22½	.18½	.24	.23
Starch, corn, pearl	2.65	2.45	3.10	3.10	7.02	4.07	7.31	5.41	5.52	5.34
Sumac ext., g. 1	.07	.05¼	.07	.07	.10½	.10½	.10½	.10½	.10½	.10½
Valonia cups	39.00	30.00	No price		58.00	52.00	60.00	57.00	90.00	53.00

Oils, Fats, and Waxes	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.
Acid, stearic, dbl-pres	.12½	.10	.1580	.1400	.33	.23	.37	.24½	.20	.13½
Degras, common	.10	.07	.12½	.08¾	.12	.10	.12	.10	.12	.10½
Lard, Western, prime	.08¾	.05¾	.135	.10½	.32	.1662	.26½	.1675	.1610	.08½
Oil, castor, No. 3	.11½	.07½	.13	.12¾	.33¼	.27½	.26½	.18½	.19	.16
Cocoanut, crude	.04¾	.02½	.0950	.0835	.26	.11	.27	.19	.17¾	.12½
Cod, NF	.72	.32	.90	.78	.24	.20	.24	.22	.20	.09
Corn, crude	.07¼	.04½	.12¾	.12	.37	.18	.36	.17	.16½	.09¾
Cottonseed, crude	.06¾	.04¼	.12¾	.12¼	.37	.16	.40	.16½	.16	.09¼
Linseed, raw	.1020	.078	.136	.106	.385	.2910	.3280	.2760	.2780	.1730
Menhaden, crude	.36	.21	.666	.60	.23	.14	.20	.14	.12	.06½
Neatsfoot, pure	.20¼	.14¾	.19¼	.17¾	.55	.41	.43	.38	.38	.21½
Oleo, extra	.12	.08	.18¾	.13¼	No stocks		.33	.22	.19	.12
Olive, denatured	1.40	.80	4.40	3.50	No stocks		3.25	3.00	3.25	1.75
Palm, Congo	.05	.03¾	.09¼	.09	No stocks		.29	.22½	.22	.1110
Peanut, crude	.07¼	.05¾	.13	.13	.37	.19½	.36	.17½	.20	.10¾
Perilla	.15½	.060	.228	.211¼	No stocks		No stocks		No stocks	
Red, single dist.	.08¾	.06¼	.1245	.1109	.32¾	.17¾	.31¾	.18¾	.16½	.10¼
Sardine, crude	.35	.22	.66½	.60	.25	.18	.24	.14	.11	.05½
Soybean, crude	.0650	.0450	.12½	.11¾	.34	.15¼	.29	.16½	.15¼	.09
Tung	.25	.14	.3888	.34¾	.38	.21	.26	.20	.26½	.17¾
Tallow, extra, loose	.07	.04¾	.0971¼	.0862⅝	.26¾	.11¾	.26¾	.11	.10¼	.05
Whale, ref., nat.	.091	.077	.1070	.1070	No stocks		No stocks		No stocks	
Wax, bees, crude, Afr.	.29	.27	.49	.37½	.59	.45	.58	.53	.54	.44
Candelilla, crude	.18½	.15½	.38	.33	.76	.62	.69	.62	.60	.38
Carnauba, 3, chalky	.45	.28	.76	.71¼	1.50	.71	.82	.63	.84	.72
Spermaceti, blocks	.23	.18	.36	.24	.50	.44	.41	.39	.39	.31

Fertilizer Materials	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.
Ammonium sulphate, dom.	28.00	28.00	28.20	23.00	32.00	28.20	45.00	38.00	48.00	45.00
Phosphate rock, Fla., 68%-66%	1.90	1.90	2.20	2.00	3.49	2.60	4.61	3.34	4.61	3.60
Potash manure salt, dom.	.53½	.53½	.60	.60	.30*	.30*	.29	.20	.29	.20
Muriate, 60%	.53½	.53½	.53½	.53½	.53½	.37½	.45½	.37½	.45½	.37½
Sodium nitrate, crude, dom.	27.00	27.00	27.00	27.00	40.50	35.00	48.50	40.50	48.50	48.50
Superphosphate, pile	8.50	7.50	10.24	9.60	13.68	12.66	14.04	13.68	13.68	13.68
Urea, dom., 46%	95.00	95.00	85.00	80.00	78.00	68.00	85.00	73.00	90.00	85.00

*F.O.B. N.M. mines.

Paint, Varnish, and Lacquer Materials	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.
Acetone, CP	.06	.04½	.10	.08½	.08	.07	.08½	.08	.08½	.07½
Alcohol, butyl, norm.	.09	.07	.15¼	.13½	.35	.25	.35	.17½	.17½	.12½
Denatured, SD1	.22½	.19½	.53	.53	.93½	.82½	.93	.46	.44	.31½
Amyl acetate, ex fusel.	.12½	.09½	.14½	.14½	.27	.24	.27	.25½	.25½	.15
Barytes, dom., floated	31.50	31.50	27.65	27.65	33.30	31.10	35.05	33.30	35.05	35.05
Black, carbon, standard	.0375	.0375	.03625	.03625	.075	.074	.0832	.0750	.0832	.0832
Blue, Prussian	.36	.33	.36	.36	.42	.42	.45	.42	.45	.45
Brown, sienna, Amer., burnt	.03¼	.03	.03¾	.03½	.08	.05	.06¾	.03¾	.03¾	.03¾
Casein, domestic	.20	.07	.31	.14	.34	.24½	.34	.30	.30	.20
Cellulose acetate, flake	.36	.35	.30	.30	.36	.36	.36	.36	.36	.33
Ethyl acetate, 85%	.06½	.051	.12	.12	.19	.19	.20	.12	.12	.09
Green, chrome, to 5%	.21	.21	.23½	.23	.32	.29	.36	.32	.38	.36
Gum, copal, Congo	.49½	.34¾	.49½	.49½	.28	.25	.26	.23	.25	.23
Dammar, Bat. A/E	.13¾	.11⅞	.25¾	.25¾	.35	.29	.27	.23	.23	.23
Ester	.06½	.06	.09½	.08½	.16¾	.13	.17	.16¾	.17	.13
Lead, red, 95%, dry	.0810	.0735	.09¼	.086	.176	.15¾	.2425	.1760	.24¼	.14¾
White, bas. carb	.07	.07	.08½	.07¾	.16	.14	.2210	.1600	.2210	.1475
Litharge, common	.0710	.0635	.085¾	.076	.1660	.74	.2325	.1660	.23¼	.13¾
Lithopone, ordinary	.04 ⅛	.0375	.04¾	.04¼	.06	.05	.06¾	.06	.06¾	.06¼
Nitrocellulose, a/s	.28	.28	.28	.28	.32	.28	.34	.32	.34	.32
Red, Indian, pure	.08¾	.08¾	.09¼	.09¼	.10¼	.09	.11½	.10¼	.11½	.11½
Rosin gum, F	5.60	5.35	4.14	3.27	9.65	6.73	8.80	7.25	7.40	5.60
Shellac, T. N	.19	.19½	.34	.31	.68	.60	.62	.59	.62	.45
Titanium dioxide, reg	.14	.13	.14½	.14½	.17½	.15½	.19½	.17½	.19½	.19½
Turpentine, gum	.34½	.28¼	.82¾	.69	1.25	.52	.64	.36	.41¾	.36
Whiting, chalk, com	12.00	12.00	18.00	18.00	10.50	10.00	11.00	10.00	11.00	6.00
Yellow, chrome, CP	.14½	.13½	.16½	.16	.27	.24	.31½	.27	.24	.30½
Zinc oxide, lead-free	.06¾	.06¼	.07¾	.07¼	.10	.09	.13½	.10	.15½	.10
Stearate, tech	.23	.20	.31	.30	.51	.48	.51	.42	.42	.34

Drugs and Fine Chemicals	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.
Acetanilide, USP	.30	.30	.34	.30	.40	.40	.40	.40	.50	.40
Acid, acetylsalicylic, USP	.50	.40	.49	.40	.46	.45	.48	.45	.48	.48
Boric, gran., tech	98.00	98.00	99.50	95.50	99.00	99.00	99.00	95.50	86.75	86.75
Citric, cryst	.22	.20	.20	.20	.25	.20	.27	.25½	.27	.27
Phosphoric, NF, 85%	.12	.12	.10½	.10½	.10½	.10½	.10½	.10½	.10½	.10½
Tartaric, USP	.31¼	.27¼	.70½	.70½	.54½	.45½	.45½	.37½	.37½	.31½

Chemical Prices: 1939-1949

Drugs and Fine Chemicals (cont'd)	1939		1942		1947		1948		1949	
	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.
Agar, No. 1	1.50	.90	4.75	3.50	3.85	2.75	3.85	3.25	3.10	1.85
Atropine sulphate	4.00	2.50	21.00	18.75	8.90	7.35	10.35	8.90	10.35	9.00
Bismuth subnitrate	1.48	1.33	1.20	1.20	2.15	2.00	2.30	2.15	2.30	2.30
Borax, tech	43.00	43.00	41.50	41.50	48.50	48.50	44.50	44.50	57.25	57.25
Bromine, purif	.30	.30	.25	.25	.21	.21	.21	.21	.21	.21
Caffeine	2.20	2.20	2.60	2.60	4.25	3.75	4.75	4.25	4.76	4.75
Camphor, nat., tabs	.82	.53½	1.60	1.60	No stocks		No stocks		No prices	
Synth., tabs	.68	.68	.82	.79½	.94	.83	.83	.83	.73	.73
Chloroform, tech	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20
Corrosive sublimate	1.99	1.05	2.24	2.24	1.92	1.53	1.53	1.53	1.53	1.53
Cream tartar	.25¼	.22½	.57½	.57½	.87½	.38½	.38½	.32½	.32½	.27½
Formaldehyde	.05⅝	.05⅝	.05½	.05½	.0370	.0320	.0420	.0370	.037	.037
Glycerin, USP	.12¼	.12¼	.18	.18	.55	.39¼	.39¼	.39¼	.39½	.24⅛
Hexamethylenetetramine, tech	.35	.32	.32	.32	.28	.24	.28	.27½	.27½	.22
Iodine, resub	2.00	1.75	2.00	2.00	2.35	2.10	2.55	2.35	2.55	2.30
Menthol, natural	3.35	2.90	14.00	13.00	9.20	7.20	9.50	8.35	12.00	8.60
Methanol, nat., denat	.40	.35	.60	.60	.60	.60	.66	.60	.60	.50
Synthetic	.33	.33	.28	.28	.24	.24	.28	.24	.28	.26
Methyl chloride	.32	.32	.32	.32	.33	.32	.33	.33	.37	.34
Salicylate	.35	.35	.35	.35	.40	.35	.40	.40	.40	.40
Oil, codliver, USP	40.00	20.00	85.00	72.00	85.80	79.20	85.80	79.20	75.80	48.20
Opium, gum, USP	11.50	11.50	13.00	13.00	21.30	21.30	21.30	19.20	19.20	19.20
Phenolphthalein, USP	.85	.85	.85	.85	.85	.85	1.00	.85	1.00	1.00
Potassium bromide	.31	.31	.27	.27	.33	.25	.33	.33	.33	.33
Quicksilver, dom	160.00	77.00	212.00	191.00	88.00	77.00	93.00	74.00	86.00	71.00
Quinine sulphate	.64	.61	.80½	.80½	.80½	.80½	.80½	.80½	.80½	.56½
Rochelle salt, powd	.20¾	.17⅝	.42½	.42½	.34½	.32½	.33	.31½	.31½	.27½
Santonin, cryst	130.00	46.00	210.00	210.00	175.00	170.00	190.00	170.00	190.00	190.00
Silver nitrate	.31½	.27	.32⅝	.26⅞	.55¾	.40½	.48	.46¼	.47¾	.44⅞
Sodium benzoate, USP	.46	.39	.46	.46	.46	.46	.46	.46	.46	.46
Bicarbonate, USP	1.85	1.70	1.85	1.85	2.25	2.25	2.25	2.25	2.35	2.35
Strychnine	.60	.50	.70	.70	1.35	1.25	1.25	1.25	1.25	1.25
Thymol	1.55	1.45	3.00	2.75	3.65	2.40	3.65	3.65	3.65	3.65
Trichloroethylene	.09	.08	.08	.08	.09¾	.08	.10½	.09¾	.10½	.10½

Botanical Drugs, Spices, and Gums	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.
Belladonna leaves	.30	.12½	3.45	1.60	2.75	1.40	1.40	1.15	1.15	.75
Root	.40	.13	2.25	1.30	2.50	1.10	1.10	.55	.55	.45
Black haw root bark	.24	.20	.40	.39	.82	.75	.80	.75	.78	.70
Buchu leaves	.80	.30	.80	.74	1.05	.80	1.00	.80	.83	.75
Cascara sagrada bark	.14	.10	.28	.20	.44	.40	.40	.38	.37	.26
Chamomile flow., Hung	.60	.20	.80	.60	.70	.65	.65	.46	.46	.45
Cinchona bark, short	.72	.40	1.25	.85	1.20	1.20	1.20	1.20	1.20	1.20
Clover tops, dom	.38	.12	.33	.26	.70	.65	.65	.58	.58	.55
Cramp bark, NF	.23	.20	.60	.30	.80	.80	.80	.80	.80	.80
Digitalis leaves	.40	.35	.50	.45	1.05	1.05	1.05	.85	.85	.70
Ergot, USP	3.50	1.25	1.70	1.25	1.55	.90	1.30	.90	3.75	1.18
Goldenseal root	3.60	2.75	4.75	3.95	8.90	6.50	6.50	4.25	4.25	3.25
Gum arabic, sorts	.19	.09	.22	.14	.14¼	.13	.14	.12½	.13½	.12
Myrrh, USP	.65	.39	.76	.60	.48	.45	.45	.35	.30	.30
Tragacanth, No. 1	2.50	2.25	3.75	3.25	4.85	3.60	3.60	3.00	3.60	2.75
Henbane leaves	.65	.14½	3.25	1.85	1.25	1.00	1.00	.45	.45	.28
Jalap root, NF	.24	.15	.65	.45	.45	.42	.45	.44	.45	.40
Lobelia herb	.12	.11	.50	.33	.82	.60	.82	.65	.83	.50
Mandrake root	.11	.09	.25	.18	.40	.35	.50	.30	.48	.30
Marjorum, French type	.35	.16	1.15	.75	.42	.34½	.52	.30	.52	.32
Papain, powd	2.10	1.10	1.10	.84	6.50	5.75	6.00	3.60	3.60	1.75
Rhubarb root	.55	.35	1.20	.75	1.40	.60	.80	.45	1.20	.75
Sarsaparilla root, Mex	.19	.13	.22	.19	.60	.45	.52	.28	.28	.24
Senega root	.85	.65	.95	.59	2.65	1.75	2.25	1.82	1.82	1.20
Senna leaves, Tinn	.14	.09	.16	.14	.25	.17	.24	.18	.18	.17
Soapbark, whole	.23	.07	.13	.09	.18	.18	.19	.18	.22	.17
Stramonium leaves	.17	.13	.50	.27	.22	.22	.22	.20	.20	.19
Tonka beans, Angos	2.40	2.40	3.00	2.40	1.75	1.75	1.75	1.70	1.75	1.75
Uva ursi leaves	.11	.08	.25	.20	.16	.12	.12	.11	.11	.10
Valerian root	.27	.09½	1.75	1.15	.58	.45	.45	.35	.37	.35
Vanilla beans, Mexican	6.50	5.00	16.00	11.00	10.50	8.25	8.25	5.00	5.75	3.85
Wild cherry bark	.07	.04½	.09½	.07	.24	.18	.24	.22	.24	.17

Essential Oils and Aromatic Chemicals	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.
Alcohol, benzyl	.63	.63	.63	.63	.65	.65	.68	.68	.80	.60
Citronellol	1.60	1.60	6.00	1.75	5.70	3.85	3.85	3.25	3.25	2.85
Coumarin	2.75	2.75	2.75	2.75	2.90	2.75	3.00	2.75	3.00	3.00
Oil, anise, USP	.85	.63	3.50	2.10	1.25	.65	.90	.70	1.60	.72
Cassia, USP	1.20	.88	11.00	10.00	3.50	2.25	2.40	1.90	3.00	1.80
Citronella, Ceylon	.46	.34	1.70	1.05	2.25	.75	.75	.65	1.50	.72
Clove, USP	1.55	.95	1.75	1.40	1.50	1.30	1.30	1.10	2.20	1.15
Eucalyptus, USP	.59	.33	.96	.70	1.18	1.05	1.05	.80	1.45	.58
Geranium, Bourbon	3.25	2.40	25.00	17.00	16.50	10.50	11.50	8.25	14.50	9.50
Lavender, spike	1.15	.95	4.15	2.75	2.95	1.50	1.50	1.10	2.25	.90
Lemon, Calif	3.00	2.00	3.25	3.25	3.50	3.10	3.10	2.55	3.25	2.65
Lemongrass	.85	.32	3.75	1.30	3.80	1.25	1.65	1.10	3.00	1.60
Lime, dist	4.15	3.00	13.00	3.25	6.00	4.00	4.25	3.10	8.00	5.25
Orange, exp., Calif	1.50	.75	3.25	2.25	1.70	1.60	1.70	1.25	1.75	.60
Peppermint, nat	2.75	2.05	7.00	5.30	8.50	7.60	7.75	6.90	7.95	4.50
Sandalwood, USP	5.50	4.50	6.00	5.85	16.50	11.15	13.75	13.00	16.30	11.50
Sassafras, artif	.75	.34	2.00	2.00	.90	.65	.77	.45	.65	.40
Spearmint, USP	2.00	1.70	3.25	3.00	13.50	6.75	8.50	5.00	5.00	3.10
Wormwood	3.35	2.00	3.00	2.75	5.60	3.85	4.25	3.25	13.50	6.25
Terpineol, CP	.25	.23	.40	.33	.47	.42	.43	.40	.50	.35
Vanillin ex guaiacol	2.50	2.10	2.35	2.35	3.15	3.00	3.00	2.00	3.00	3.00

Petroleum Products	H.	L.	H.	L.	H.	L.	H.	L.	H.	L.
Kerosene, w.w	.052	.04¼	.068	.053	.09625	.061	.09625	.09500	.0925	.07625
Oil, white, min., 125-35	.64½	.60½	.63	.49	.63	.54½	.64	.61	.64	.53
Paraffin, white, scale	.07	.0235	.04¼	.04¼	.06½	.06	.07	.06½	No prices	
Pentane	.08½	.08½	.08½	.06½	.17	.11	.14	.10¼	.10½	.10½
Petrolatum, amber	.04	.02⅝	.04⅝	.02⅝	.04¼	.04½	.04¾	.04¼	.04⅞	.04¾
Petroleum naphtha, arom	.19	.16	.21½	.21½	.22½	.27	.27	.27	.27	.25
V.M.&P.	.10½	.10½	.11	.11	.15	.12	.15	.14½	.15	.15
Propane, indus	.03¾	.03	.03¾	.02⅝	.06⅝	.03¾	.06	.06½	.06	.02½

Technical Data

A selection of miscellaneous tables collected from various sources and published to provide a handy reference for frequently needed technical information.

Table of Conversion Factors*

CU-GA

Data are arranged alphabetically.

Unless designated otherwise, the English measures of capacity are those used in the United States, and the units of weight and mass are avoirdupois units.

The word gallon, used in any conversion factor, designates the U. S. gallon. To convert into the Imperial gallon, multiply the U. S. gallon by 0.83267. Likewise, the word ton designates a short ton, 2,000 pounds.

The figures 10^{-1}, 10^{-2}, 10^{-3}, etc. denote 0.1, 0.01, 0.001, etc., respectively.

The figures 10^{1}, 10^{2}, 10^{3}, etc. denote 10, 100, 1000, etc., respectively.

With respect to the properties of water, it freezes at 32°F., and is at its maximum density at 39.2°F. In the conversion factors given below using the properties of water, calculations are based on water at 39.2°F. in vacuo, weighing 62.427 pounds per cubic foot, or 8.345 pounds per U. S. gallon.

"Parts Per Million," designated as P.P.M., is always by weight and is simply a more convenient method of expressing concentration, either dissolved or undissolved material. Usually P.P.M. is used where percentage would be so small as to necessitate several ciphers after the decimal point, as one part per million is equal to 0.0001 per cent.

As used in the Sanitary field, P.P.M. represents the number of pounds of dry solids contained in one million pounds of water, including solids. In this field, one part per million may be expressed as 8.345 pounds of dry solids to one million U. S. gallons of water. In the Metric system, one part per million may be expressed as one gram of dry solids to one million grams of water, or one milligram per liter.

In arriving at parts per million by means of pounds per million gallons or milligrams per liter, it may be mentioned that the density of the solution or suspension has been neglected and if this is appreciably different from unity, the results are slightly in error.

Conversion Factors

AC-CU

Multiply	*By*	*To Obtain*
Acres	43,560	Square feet
"	4047	Square meters
"	1.562×10^{-3}	Square miles
"	4840	Square yards
Acre-feet	43,560	Cubic feet
" "	325,851	Gallons
" "	1233.49	Cubic meters
Atmospheres	76.0	Cms. of mercury
"	29.92	Inches of mercury
"	33.90	Feet of water
"	10,333	Kgs./sq. meter
"	14.70	Lbs./sq. inch
"	1.058	Tons/sq. ft.
Barrels-oil	42	Gallons-oil
" -cement	376	Pounds-cement
Bags or sacks-cement	94	Pounds-cement
Board-feet	144 sq. in. x 1 in.	Cubic inches
British Thermal Units	0.2520	Kilogram-calories
" " "	777.5	Foot-lbs.
" " "	3.927×10^{-4}	Horsepower-hrs.
" " "	107.5	Kilogram-meters
" " "	2.928×10^{-4}	Kilowatt-hrs.
B.T.U./min.	12.96	Foot-lbs./sec.
" / "	0.02356	Horse-power
" / "	0.01757	Kilowatts
" / "	17.57	Watts
Centares (Centiares)	1	Square meters
Centigrams	0.01	Grams
Centiliters	0.01	Liters
Centimeters	0.3937	Inches
"	0.01	Meters
"	10	Millimeters
Centimtrs. of Mercury	0.01316	Atmospheres
" " "	0.4461	Feet of water
" " "	136.0	Kgs./sq. meter
" " "	27.85	Lbs./sq. ft.
" " "	0.1934	Lbs./sq. inch
Centimeters/second	1.969	Feet/min.
" / "	0.03281	Feet/sec.
Centimeters/second	0.036	Kilometers/hr.
" / "	0.6	Meters/min.
" / "	0.02237	Miles/hr.
" / "	3.728×10^{-4}	Miles/min.
Cms./sec./sec.	0.03281	Feet/sec./sec.
Cubic centimeters	3.531×10^{-5}	Cubic feet
" "	6.102×10^{-2}	Cubic inches
" "	10^{-6}	Cubic meters
" "	1.308×10^{-6}	Cubic yards
" "	2.642×10^{-4}	Gallons
" "	10^{-3}	Liters
" "	2.113×10^{-3}	Pints (liq.)
" "	1.057×10^{-3}	Quarts (liq.)
Cubic feet	2.832×10^{4}	Cubic cms.
" "	1728	Cubic inches
" "	0.02832	Cubic meters
" "	0.03704	Cubic yards
" "	7.48052	Gallons
" "	28.32	Liters
" "	59.84	Pints (liq.)
" "	29.92	Quarts (liq.)
Cubic feet/minute	472.0	Cubic cms./sec.
" " / "	0.1247	Gallons/sec.
" " / "	0.4720	Liters/sec.
" " / "	62.43	Pounds of water/min.
Cubic feet/second	0.646317	Million gals./day
" " / "	448.831	Gallons/min.
Cubic inches	16.39	Cubic centimeters.
" "	5.787×10^{-4}	Cubic feet
" "	1.639×10^{-5}	Cubic meters
" "	2.143×10^{-5}	Cubic yards
" "	4.329×10^{-3}	Gallons
" "	1.639×10^{-2}	Liters
" "	0.03463	Pints (liq.)
" "	0.01732	Quarts (liq.)
Cubic meters	10^{6}	Cubic centimeters.
" "	35.31	Cubic feet
" "	61.023	Cubic inches
" "	1.308	Cubic yards
" "	264.2	Gallons
Cubic meters	10^{3}	Liters
" "	2113	Pints (liq.)
" "	1057	Quarts (liq.)
Cubic yards	7.646×10^{5}	Cubic centimeters
" "	27	Cubic feet
" "	46.656	Cubic inches
" "	0.7646	Cubic meters
" "	202.0	Gallons
" "	764.6	Liters
" "	1616	Pints (liq.)
" "	807.9	Quarts (liq.)
Cubic yards/min.	0.45	Cubic feet/sec
" " / "	3.367	Gallons/sec.
" " / "	12.74	Liters/sec.
Decigrams	0.1	Grams
Deciliters	0.1	Liters
Decimeters	0.1	Meters
Degrees (angle)	60	Minutes
" "	0.01745	Radians
" "	3600	Seconds
Degrees/sec.	0.01745	Radians/sec.
" / "	0.1667	Revolutions/min
" / "	0.002778	Revolutions/sec
Dekagrams	10	Grams
Dekaliters	10	Liters
Dekameters	10	Meters
Drams	27.34375	Grains
"	0.0625	Ounces
"	1.771845	Grams
Fathoms	6	Feet
Feet	30.48	Centimeters
"	12	Inches
"	0.3048	Meters
"	1/3	Yards
Feet of water	0.02950	Atmospheres
" " "	0.8826	Inches of mercury
" " "	304.8	Kgs./sq. meter
" " "	62.43	Lbs./sq. ft.
" " "	0.4335	Lbs./sq. inch
Feet/min.	0.5080	Centimeters/sec.
" / "	0.01667	Feet/sec.
" / "	0.01829	Kilometers/hr.
" / "	0.3048	Meters/min.
" / "	0.01136	Miles/hr.
Feet/sec.	30.48	Centimeters/sec.
" / "	1.097	Kilometers/hr.
" / "	0.5921	Knots
" / "	18.29	Meters/min.
" / "	0.6818	Miles/hr.
" / "	0.01136	Miles/min.
Feet/sec./sec.	30.48	Cms./sec./sec.
" / " / "	0.3048	Meters/sec./sec.
Foot-pounds	1.286×10^{-3}	British Thermal Units
"	5.050×10^{-7}	Horse-power-hrs.
"	3.241×10^{-4}	Kilogram-calories
"	0.1383	Kilogram-meters
"	3.766×10^{-7}	Kilowatt-hrs.
Foot-pounds/min.	1.286×10^{-3}	B. T. Units/min
" " / "	0.01667	Foot-pounds/sec.
" " / "	3.030×10^{-5}	Horse-power
" " / "	3.241×10^{-4}	Kg.-calories/min.
" " / "	2.260×10^{-5}	Kilowatts
Foot-pounds/sec.	7.717×10^{-2}	B. T. Units/min.
" " / "	1.818×10^{-3}	Horse-power
" " / "	1.945×10^{-2}	Kg-calories/min.
" " / "	1.356×10^{-3}	Kilowatts
Gallons	3785	Cubic centimeters
"	0.1337	Cubic feet
"	231	Cubic inches
"	3.785×10^{-3}	Cubic meters
"	4.951×10^{-3}	Cubic yards
"	3.785	Liters
"	8	Pints (liq.)
"	4	Quarts (liq.)
Gallons, Imperial	1.20095	U. S. gallons
" U. S.	0.83267	Imperial gallons

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Table of Conversion Factors (cont'd)

GA-LI

Multiply	By	To Obtain
Gallons water	8.3453	Pounds of water
Gallons/min.	2.228×10^{-3}	Cubic feet/sec.
" / "	0.06308	Liters/sec.
" / "	8.0208	Cu. ft./hr.
" / "	8.0308 Area (sq. ft.)	Overflow rate (ft./hr.)
Gallons water/min.	6.0086	Tons water/24 hrs.
Grains (troy)	1	Grains (avoir.)
" "	0.06480	Grams
" "	0.04167	Pennyweights (troy)
" "	2.0833×10^{-3}	Ounces (troy)
Grains/U.S. gal.	17.118	Parts/million
" /U.S. gal.	142.86	Lbs./million gal.
" /Imp. gal.	14.254	Parts/million
Grams	980.7	Dynes
"	15.43	Grains
"	10^{-3}	Kilograms
"	10^{3}	Milligrams
"	0.03527	Ounces
Grams	0.03215	Ounces (troy)
"	2.205×10^{-3}	Pounds
Grams/cm.	5.600×10^{-3}	Pounds/inch
Grams/cu. cm.	62.43	Pounds/cubic foot
" / " "	0.03613	Pounds/cubic inch
Grams/liter	58.417	Grains/gal.
" / "	8.345	Pounds/1000 gals.
" / "	0.062427	Pounds/cubic foot
" / "	1000	Parts/million
Hectares	2.471	Acres
"	1.076×10^{5}	Square feet
Hectograms	100	Grams
Hectoliters	100	Liters
Hectometers	100	Meters
Hectowatts	100	Watts
Horse-power	42.44	B.T. Units/min.
" "	33,000	Foot-lbs./min.
" "	550	Foot-lbs./sec.
" "	1.014	Horse-power (metric)
" "	10.70	Kg.-calories/min.
" "	0.7457	Kilowatts
" "	745.7	Watts
Horse-power (boiler)	33,479	B.T.U./hr.
" "	9.803	Kilowatts
Horse-power-hours	2.547	British Thermal Units
" " "	1.98×10^{6}	Foot-lbs.
" " "	641.7	Kilogram-calories
" " "	2.737×10^{5}	Kilogram-meters
" " "	0.7457	Kilowatt-hours
Inches	2.540	Centimeters
Inches of mercury	0.03342	Atmospheres
" " "	1.133	Feet of water
" " "	345.3	Lbs./sq. ft.
" " "	70.73	Kgs./sq. meter
" " "	0.4912	Lbs./sq. inch
Inches of water	0.002458	Atmospheres
" " "	0.07355	Inches of mercury
" " "	25.40	Kgs./sq. meter
" " "	0.5781	Ounces/sq. inch
" " "	5.202	Lbs./sq. foot
" " "	0.03613	Lbs./sq. inch
Kilograms	980,665	Dynes
"	2.205	Lbs.
"	1.102×10^{-3}	Tons (short)
"	10^{3}	Grams
Kilograms-calories	3.968	British Thermal Unit
" "	3086	Foot-pounds
" "	1.558×10^{-3}	Horse-power-hours
" "	1.162×10^{-3}	Kilowatt-hours
Kilogram-calories/min.	51.43	Foot-pounds/sec.
" " / "	0.09351	Horse-power
" " / "	0.06972	Kilowatts
Kgs./meter	0.6720	Lbs./foot
Kgs./sq. meter	9.678×10^{-5}	Atmospheres
" / " "	3.281×10^{-3}	Feet of water
" / " "	2.896×10^{-3}	Inches of mercury
" / " "	0.2048	Lbs./sq. foot
" / " "	1.422×10^{-3}	Lbs./sq. inch
Kgs./sq. millimeter	10^{6}	Kgs./sq. meter
Kiloliters	10^{3}	Liters
Kilometers	10^{5}	Centimeters
"	3281	Feet
"	10^{3}	Meters
"	0.6214	Miles
"	1094	Yards
Kilometers/hr.	27.78	Centimeters/sec.
" / "	54.68	Feet/min.
" / "	0.9113	Feet/sec.
" / "	0.5396	Knots
" / "	16.67	Meters/min.
" / "	0.6214	Miles/hr.
Kms./hr./sec.	27.78	Cms./sec./sec.
" / " / "	0.9113	Ft./sec./sec.
" / " / "	0.2778	Meters/sec./sec.
Kilowatts	56.92	B. T. Units/min.
"	4.425×10^{4}	Foot-lbs./min.
"	737.6	Foot-lbs./sec.
"	1.341	Horse-power
"	14.34	Kg.-calories/min.
"	10^{3}	Watts
Kilowatt-hours	3415	British Thermal Units
" "	2.655×10^{6}	Foot-lbs.
" "	1.341	Horse-power-hrs.
" "	860.5	Kilogram-calories
" "	3.671×10^{5}	Kilogram-meters
Liters	10^{3}	Cubic centimeters
"	0.03531	Cubic feet
"	61.02	Cubic inches
"	10^{-3}	Cubic meters
"	1.308×10^{-3}	Cubic yards

LI-PO

Multiply	By	To Obtain
Liters	2.113	Gallons
"	0.2642	Pints (liq.)
"	1.057	Quarts (liq.)
Liters/min.	5.886×10^{-4}	Cubic ft./sec.
" / "	4.403×10^{-3}	Gals./sec.
Lumber Width (in.) x Thickness (in.) / 12	Length (ft.)	Board Feet
Meters	100	Centimeters
"	3.281	Feet
"	39.37	Inches
"	10^{-3}	Kilometers
"	10^{3}	Millimeters
"	1.094	Yards
Meters/min.	1.667	Centimeters/sec.
" / "	3.281	Feet/min.
" / "	0.05468	Feet/sec.
" / "	0.06	Kilometers/hr.
" / "	0.03728	Miles/hr.
Meters/sec.	196.8	Feet/min.
" / "	3.281	Feet/sec.
" / "	3.6	Kilometers/hr.
" / "	0.06	Kilometers/min.
" / "	2.237	Miles/hr.
" / "	0.03728	Miles/min.
Microns	10^{-9}	Meters
Miles	1.609×10^{5}	Centimeters
"	5280	Feet
"	1.609	Kilometers
"	1760	Yards
Miles/hr.	44.70	Centimeters/sec.
" / "	88	Feet/min.
" / "	1.467	Feet/sec.
" / "	1.609	Kilometers/hr.
" / "	0.8684	Knots
" / "	26.82	Meters/min.
Miles/min.	2682	Centimeters/sec.
" / "	88	Feet/sec.
" / "	1.609	Kilometers/min.
" / "	60	Miles/hr.
Milliers	10^{3}	Kilograms
Milligrams	10^{3}	Liters
Milliliters	10^{3}	Grams
Millimeters	0.1	Centimeters
"	0.03937	Inches
Milligrams/liter	1	Parts/million
Million gals./day	1.54723	Cubic ft./sec.
Miner's inches	1.5	Cubic ft./min.
Minutes (angle)	2.909×10^{-4}	Radians
Ounces	16	Drams
"	437.5	Grains
"	0.0625	Pounds
"	28.349527	Grams
"	0.9115	Ounces (troy)
"	2.790×10^{-5}	Tons (long)
"	2.835×10^{-5}	Tons (metric)
Ounces, troy	480	Grains
" "	20	Pennyweights (troy)
" "	0.08333	Pounds (troy)
" "	31.103481	Grams
" "	1.09714	Ounces, avoir.
Ounces (fluid)	1.805	Cubic inches
" "	0.02957	Liters
Ounces/sq. inch	0.0625	Lbs./sq. inch
Overflow rate (ft./hr.) / 1	0.12468 x area (sq. ft.)	Gals./min.
	8.0208	Sq. ft./gal./min.
Overflow rate (ft./hr.)	0.0584	Grains/U.S. gal.
Parts/million	0.07016	Grains/Imp. gal.
" "	8.345	Lbs./million gal.
Pennyweights (troy)	24	Grains
" "	1.55517	Grams
" "	0.05	Ounces (troy)
" "	4.1667×10^{-3}	Pounds (troy)
Pounds	16	Ounces
"	256	Drams
"	7000	Grains
"	0.0005	Tons (short)
"	453.5924	Grams
"	1.21528	Pounds (troy)
"	14.5833	Ounces (troy)
Pounds (troy)	5760	Grains
" "	240	Pennyweights (troy)
" "	12	Ounces (troy)
" "	373.24177	Grams
" "	0.822857	Pounds (avoir.)
" "	13.1657	Ounces (avoir.)
" "	3.6735×10^{-4}	Tons (long)
" "	4.1143×10^{-4}	Tons (short)
" "	3.7324×10^{-4}	Tons (metric)
Pounds of water	0.01602	Cubic feet
" " "	27.68	Cubic inches
" " "	0.1198	Gallons
Pounds of water/min.	2.670×10^{-4}	Cubic ft./sec.
Pounds/cubic foot	0.01602	Grams/cubic cm.
" / " "	16.02	Kgs./cubic meter
" / " "	5.787×10^{-4}	Lbs./cubic inch
Pounds/cubic inch	27.68	Grams/cubic cm.
" / " "	2.768×10^{4}	Kgs./cubic meter
" / " "	1728	Lbs./cubic foot
Pounds/foot	1.488	Kgs./meter
Pounds/inch	178.6	Grams/cm.
Pounds/sq. foot	0.01602	Feet of water
" / " "	4.883	Kgs./sq. meter
" / " "	6.945×10^{-3}	Pounds/sq. inch
Pounds/sq. inch	0.06804	Atmospheres
" / " "	2.307	Feet of water

Table of Conversion Factors (cont'd)

PO-SQ

Multiply	By	To Obtain
Pounds/sq. inch	2.036	Inches of mercury
" / " "	703.1	Kgs./sq. meter
Quadrants (angle)	90	Degrees
" "	5400	Minutes
" "	1.571	Radians
Quarts (dry)	67.20	Cubic inches
Quarts (liq.)	57.75	Cubic inches
Quintal, Argentine	101.28	Pounds
" Brazil	129.54	Pounds
" Castile, Peru	101.43	Pounds
" Chile	101.41	Pounds
" Mexico	101.47	Pounds
" Metric	220.46	Pounds
Quires	25	Sheets
Radians	57.30	Degrees
"	3438	Minutes
"	0.637	Quadrants
Radians/sec.	57.30	Degrees/sec.
" / "	0.1592	Revolutions/sec.
" / "	9.549	Revolutions/min.
Radians/sec./sec.	573.0	Revolutions/min./min.
" / " / "	0.1592	Revolutions/sec./sec.
Reams	500	Sheets
Revolutions	360	Degrees
"	4	Quadrants
"	6.283	Radians
Revolutions/min.	6	Degrees/sec.
" / "	0.1047	Radians/sec.
" / "	0.01667	Revolutions/sec.
Revolutions/min./min.	1.745×10^{-2}	Rads./sec./sec.
" / " / "	2.778×10^{-4}	Revs./sec./sec.
Revolutions/sec.	360	Degrees/sec.
Revolutions/sec.	6.283	Radians/sec.
" / "	60	Revolutions/min.
Revolutions/sec./sec.	6.283	Radians/sec./sec.
" / " / "	3600	Revolutions/min./min.
Seconds (angle)	4.848×10^{-6}	Radians
Square centimeters	1.076×10^{-3}	Square feet
" "	0.1550	Square inches
" "	10^{-4}	Square meters
" "	100	Square millimeters
Square feet	2.296×10^{-5}	Acres
" "	929.0	Square centimeters
" "	144	Square inches
" "	0.09290	Square meters
" "	3.587×10^{-8}	Square miles
" "	1/9	Square yards
1 /	8.0208	Overflow rate (ft./hr.)
Sq. ft./gal./min.		
Square inches	6.452	Square centimeters
" "	6.944×10^{-3}	Square feet
" "	645.2	Square millimeters
Square kilometers	247.1	Acres
" "	10.76×10^{6}	Square feet

SQ-YA

Multiply	By	To Obtain
Square kilometers	10^{6}	Square meters
" "	0.3861	Square miles
" "	1.196×10^{6}	Square yards
Square meters	2.471×10^{-4}	Acres
" "	10.76	Square feet
" "	3.861×10^{-7}	Square miles
" "	1.196	Square yards
Square miles	640	Acres
" "	27.88×10^{6}	Square feet
" "	2.590	Square kilometers
" "	3.098×10^{6}	Square yards
Square millimeters	0.01	Square centimeters
" "	1.550×10^{-3}	Square inches
Square yards	2.066×10^{-4}	Acres
" "	9	Square feet
" "	0.8361	Square meters
" "	3.228×10^{-7}	Square miles
Temp. (°C.) + 273	1	Abs. temp. (°C.)
" " + 17.78	1.8	Temp. (°F.)
" (°F.) + 460	1	Abs. temp. (°F.)
" " − 32	5/9	Temp. (°C.)
Tons (long)	1016	Kilograms
" "	2240	Pounds
" "	1.12000	Tons (short)
Tons (metric)	10^{3}	Kilograms
"	2205	Pounds
Tons (short)	2000	Pounds
"	32000	Ounces
" "	907.18486	Kilograms
Tons (short)	2430.56	Pounds (troy)
" "	0.89287	Tons (long)
" "	29166.66	Ounces (troy)
" "	0.90718	Tons (metric)
1 / Area (sq ft.)		Sq. ft./ton/24 hrs.
Tons dry solids/24 hrs.	83.333	Pounds water/hour
Tons of water/24 hrs.	0.16643	Gallons/min.
" " / " "	1.3349	Cu. ft./hr.
Watts	0.05692	B. T. Units/min.
"	44.26	Foot-pounds/min.
"	0.7376	Foot-pounds/sec.
"	1.341×10^{-3}	Horse-power
"	0.01434	Kg.-calories/min.
"	10^{-3}	Kilowatts
Watt-hours	3.415	British Thermal Units
"	2655	Foot-pounds
"	1.341×10^{-3}	Horse-power-hours
"	0.8605	Kilogram-calories
"	367.1	Kilogram-meters
"	10^{-3}	Kilowatt-hours
Yards	91.44	Centimeters
"	3	Feet
"	36	Inches
"	0.9144	Meters

Table of Wrought Pipe Standard Dimensions

Size Inches	Diameters: External Inches	Diameters: Approximate Internal Inches	Nominal Thickness Inches	Circumference: External Inches	Circumference: Internal Inches	Transverse Areas: External Sq. Ins.	Transverse Areas: Internal Sq. Ins.	Transverse Areas: Metal Sq. Ins.	Length of Pipe Per Sq. Foot of: External Surface Feet	Length of Pipe Per Sq. Foot of: Internal Surface Feet	Length of Pipe Containing One Cubic Foot Feet	Nominal Weight Per Foot: Plain Ends	Nominal Weight Per Foot: Threaded and Coupled	Number Threads per Inch of Screw
⅛	.405	.269	.068	1.272	.845	.129	.057	.072	9.431	14.199	2533.775	.244	.245	27
¼	.540	.364	.088	1.696	1.144	.229	.104	.125	7.073	10.493	1383.789	.424	.425	18
⅜	.675	.493	.091	2.121	1.549	.358	.191	.167	5.658	7.747	754.360	.567	.568	18
½	.840	.622	.109	2.639	1.954	.554	.304	.250	4.547	6.141	473.906	.850	.852	14
¾	1.050	.824	.113	3.299	2.589	.866	.533	.333	3.637	4.636	270.034	1.130	1.134	14
1	1.315	1.049	.133	4.131	3.296	1.358	.864	.494	2.904	3.641	166.818	1.678	1.684	11½
1¼	1.660	1.360	.140	5.215	4.335	2.164	1.495	.669	2.301	2.767	96.275	2.272	2.281	11½
1½	1.900	1.610	.145	5.969	5.058	2.835	2.036	.799	2.010	2.372	70.733	2.717	2.731	11½
2	2.375	2.067	.154	7.461	6.494	4.430	3.355	1.075	1.608	1.847	42.913	3.652	3.678	11½
2½	2.875	2.469	.203	9.032	7.757	6.492	4.788	1.704	1.328	1.547	30.077	5.793	5.819	8
3	3.500	3.068	.216	10.996	9.638	9.621	7.393	2.228	1.091	1.245	19.479	7.575	7.616	8
3½	4.000	3.548	.226	12.566	11.146	12.566	9.886	2.680	.954	1.076	14.565	9.109	9.202	8
4	4.500	4.026	.237	14.137	12.648	15.904	12.730	3.174	.848	.948	11.312	10.790	10.889	8
4½	5.000	4.506	.247	15.708	14.156	19.635	15.947	3.688	.763	.847	9.030	12.538	12.642	8
5	5.563	5.047	.258	17.477	15.856	24.306	20.006	4.300	.686	.756	7.198	14.617	14.810	8
6	6.625	6.065	.280	20.813	19.054	34.472	28.891	5.581	.576	.629	4.984	18.974	19.185	8
7	7.625	7.023	.301	23.955	22.063	45.664	38.738	6.926	.500	.543	3.717	23.544	23.769	8
8	8.625	8.071	.277	27.096	25.356	58.426	51.161	7.265	.442	.473	2.815	24.696	25.000	8
8	8.625	7.981	.322	27.096	25.073	58.426	50.027	8.399	.442	.478	2.872	28.554	28.809	8
9	9.625	8.941	.342	30.238	28.089	72.760	62.786	9.974	.396	.427	2.294	33.907	34.188	8
10	10.750	10.192	.279	33.772	32.019	90.763	81.585	9.178	.355	.374	1.765	31.201	32.000	8
10	10.750	10.136	.307	33.772	31.843	90.763	80.691	10.072	.355	.376	1.785	31.240	35.000	8
10	10.750	10.020	.365	33.772	31.479	90.763	78.855	11.908	.355	.381	1.826	40.483	41.132	8
11	11.750	11.000	.375	36.914	34.558	108.434	95.033	13.401	.325	.347	1.515	45.557	46.247	8
12	12.750	12.090	.330	40.055	37.982	127.676	114.800	12.876	.299	.315	1.254	43.773	45.000	8
12	12.750	12.000	.375	40.055	37.699	127.676	113.097	14.579	.299	.318	1.273	49.562	50.706	8

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Equipment and Container Company Directory

An Alphabetical Listing of Equipment and Container Manufacturers and Dealers

A

AARON EQUIPMENT CO, 1347 S Ashland av, Chicago, Ill Chesapeake 3-5300
ABBE ENGINEERING CO, 44 Church st, New York, N Y Cortlandt 7-1115
Abbe Inc, Paul O, 245 Center av, Little Falls, N J
Abbeon Supply Co, 58-10 41 dr, Woodside, N Y
Acadia Synthetic Product Co, 4115 Ogden av, Chicago, Ill
Ace Equipt Co, 400 W Kinzie st, Chicago, Ill
Acme Steel Co, 2840 Archer st, Chicago, Ill
Adams Co Inc, R P, 225 E Park dr, Buffalo, N Y
AETNA SCIENTIFIC CO, Second & Spring sts, Everett, Mass Everett 7-5259
Agicide Labs, Inc, 1717 Taylor av, Racine, Wis
Air Reduction Sales Co, 60 E 42nd st, New York, N Y
AIRTOOL MFG CO, 362 S Center st, Springfield, Ohio 3-4989
Chicago, Ill, 8416 S Vernon av Vincennes 2784
Houston, Tex, 2046 Banks st Keystone 3-5026
New York, N Y, 50 Church st Cortlandt 7-8073
Tulsa, Oklahoma, 1624 S Gary pl 6-0384
Ajax Electric Co Inc, Frankford & Delaware avs, Phila, Pa
Akron Metallic Gasket Co, 150-164 North Union st, Akron, O
Aldrich Pump Co, Pine st, Allentown, Pa
All American Tool & Mfg Co, 1014 Fullerton av, Chicago, Ill
Allegheny Ludlum Steel Corp, Pittsburgh, Pa
Allen Electrolytic Cell Corp, 57 Exchange st, Portland, Me
Allied Barrel Corp, 1044 Seneca st, Oil City, Pa
ALLIED STEEL & EQUIPT CO, Chester, N J Chester 141
Allis-Chalmers Mfg Co, 1126 S 70 st, Milwaukee, Wisc
Allis Co, The Louis, 427 E Stewart st, Milwaukee, Wisc
Alloy Products Corp, 1045 Perkins av, Waukesha, Wis
Alloy Steel Products Co, Inc, 1504 W Elizabeth av, Linden, N J
Alpha Metals, Inc, 363 Hudson av, B'klyn, N Y
Atlanta, Ga, Trust Co of Ga Bldg Walnut 2811
Baltimore, Md, 625 S Smallwood st Gilmore 2770
Boston, Mass, 80 Boylston st Hancock 1046
Cincinnati, O, 1602 Shenandoah av Valley 0150
Des Moines, Iowa, 444 S W 5th st 4-0149
Los Angeles, Calif, 2464 Enterprise st Tucker 9295
New York City, 12 E 41st st Lexington 2-1472
Oklahoma City, Okla, 211 S Compress 3-9447
Omaha, Neb, 1402 Webster st Webster 5362
Philadelphia, Pa, Bourse Bldg Lombard 2986
Portland, Ore, 1501 N W Kearney st, Beacon 6904
Richmond Hgts, Mo, 7162 Wise av, Hiland 5501
Rock Island, Ill, 1612 First av, R I 486
San Francisco, Calif, 24 Bluxome st Garfield 7526
Seattle, Wash, 1027 Bellvue Ct Ca 4248
Spokane, Wash, 918 W Mallon av, B'way 1485
ALSOP ENGINEERING CORP, 500 Center st, Milldale, Conn
Aluminum Co of Amer, Gulf Bldg, Pittsburgh, Pa Southington 140
American Air Filter Co, Inc, 215 Central av, Louisville, Ky
American Blower Corp, Detroit, Mich
Amer Brass Co, The, 425 B'way, N Y
Amer Chain & Cable Co Inc, Helcoid Gage Div, Bridgeport, Conn
Amer Coating Mills, Div of Owens-Illinois Glass Co, Elkhart, Ind
American Copper & Brass Works, 610 E Front st, Cincinnati, O
American District Steam Co, 380 Bryant st, N Tonawanda, N Y
AMERICAN FLANGE & MANUFACTURING CO, INC,
New York, N Y, 30 Rockefeller Plaza Plaza 7-2200
Chicago, Ill, 825 S Kilpatrick av
American Foundry Equipment Co, 587 S Byrkit st, Mishawaka, Ind
Amer Gas Furnace Co, Lafayette st, Elizabeth, N J
American Hard Rubber Co, 11 Mercer st, New York, N Y
American Heat Reclaiming Corp, 1270 6th av, New York, N Y
American Instrument Co, 8050 Georgia av, Silver Spring, Md
Amer LaFrance Foamite Corp, Elmira, N Y
Amer Laundry Machinery Co, Cincinnati, O
American Machine & Foundry Co, 511 Fifth av, New York, N Y
American Machine & Metals Mfg Co, East Moline, Ill
Amer Manganese Steel Div, Amer Brake Shoe Co, 4244 E 14 st, Chicago Hgts, Ill
American Meter Co Inc, 60 E 42nd st, New York, N Y
Amer Optical Co, Scientific Instrument Div, Box A, Buffalo, N Y
AMERICAN PULVERIZER CO, 1249 Macklind av,
St Louis, Mo Sterling 6100
AMER ROLAND CORP, 16 Hudson st, N Y Digby 9-0170
Amer Smelting & Refg Co, 120 B'way, N Y
American Steel and Wire Co, U S Steel Corp Subsidiary, 614 Superior av, N W, Cleveland O
American Tool & Machine Co, 1417 Hyde Park av, Boston, Mass
Amersil Co, Inc, Chestnut av, Hillside, N J
Ampco Metal Inc, 1745 S 38 st, Milwaukee, Wis
Anchor Hocking Glass Corp, Lancaster, O
ANGEL & CO, H REEVE, 52 Duane st, New York, N Y Cortlandt 7-6577
ANGUS, INC, W W, 220 Bdway, New York Cortlandt 7-5728
Anthony Co, 47-33 Fifth st, L I C, N Y
Arcos Corp, 50th & Paschall av, Phila, Pa
Armco Steel Corp, 710 Curtis st, Middletown, Ohio
Armstrong Machine Wks, 922 Maple st, Three Rivers, Mich
ARTISAN METAL PRODS, INC, 73 Pond st, Waltham, Mass Waltham 5-6800
Artisan Metal Works Co, 1140 Madison av, Cleveland, O
ASTELL & CO INC, JOHN B, 52 W B'way, New York, N Y Cortlandt 7-7544
Atlantic Metal Hose Co Inc, 123 W 64 st, New York, N Y
Atlas Copper & Brass Mfg Co, 2734 N Janssen av, N W, Chicago, Ill Topton 37
ATLAS MINERAL PRODS CO, Mertztown, Pa
Audubon Wire Cloth Corp, Richmond st & Castor av, Phila, Pa
AURORA PUMP CO, 115 Loucks st, Aurora, Ill Aurora 2-4381
Chicago, Ill, 37 West Van Buren st
Detroit, Mich, 1347 Book Bldg
New York City, 90 West st
Pittsburgh, Pa, 1206 Empire Bldg
Autoclave Engrs, 860 E 19 st, Erie, Pa
Automatic Switch Co, 391 Lakeside av, Orange, N J
Automatic Temperature Control Co, Inc, 26 Logan st, Phila, Pa

B

BABCOCK & WILCOX CO, THE, 85 Liberty st,
New York, N Y Barclay 7-4300
Atlanta, Ga, Chandler Bldg Walnut 5387
Boston, 49 Federal st Liberty 6823
Charlotte, N C, Liberty Bldg Charlotte 4-6491
Chicago, Ill, 105 So LaSalle st, Central 6546
Cincinnati, Carew Tower Main 3152
Cleveland, Guardian Bldg Main 3984
Dallas, Tex, Magnolia Bldg Riverside 4145
Denver, 1720 Calif st Keystone 3311
Detroit, Ford Bldg Cadillac 3144
Galveston, Tex, Guaranty Bldg 2-4933
Houston, Tex, Bankers Mortgage Bldg Fairfax 7316
Los Angeles, 811 Richfield Bldg Michigan 8478
Milwaukee, Wisc, 759 N Milwaukee st
Minneapolis, Minn, 517 Northwestern Bank Bldg
New Orleans, Whitney Bank Bldg Raymond 4271
Phoenix, Arizona, P O Box 271 4-1686
Pittsburgh, Koppers Bldg Atlantic 0672
Philadelphia, Pa, Packard Bldg Rittenhouse 3062
Portland, Ore, Failing Bldg Atwater 9684
St Louis, Shell Bldg Chestnut 5249
Salt Lake City, Kerns Bldg 5-5377
San Francisco, 650 Mission st Garfield 3484
Seattle, Smith Tower Main 1490
Syracuse, N Y, State Tower Bldg Syracuse 3-3566
Babcock & Wilcox Tube Co, Beaver Falls, Pa
Bacharach, E W, Co Inc, 800 Rialto Bldg, Kansas City, Mo
Badger & Sons Co, E B, 75 Pitts st, Boston, Mass
Bagnak Inc, 220 East 42 st, New York, N Y
BAILEY METER CO, 1054 Ivanhoe rd, Cleveland, O Glenville 1-4600
Atlanta, Ga, 184 Pryer st, S W Cypress 2088
Boston, Mass, 120 Milk st Hancock 6-8315
Buffalo, N Y, 705 Elliott Sq Bldg Cleveland 3613
Charlotte, N C, 617 Johnston Bldg 4-9161
Chicago, Ill, 53 W Jackson Blvd Harrison 7-7324
Cincinnati, O, 2509 Carew Tower Bldg Parkway 0258
Cleveland, O, 1050 Ivanhoe rd Glenville 1-4600
Denver, Colo, 1506 Kearny st East 7745
Detroit, Mich, 2442 W Grand Blvd Trinity 5-2411
Houston, Texas, 2518-112 Times blvd Keystone 9423
Kansas City, Mo, 7726 Ward p'kway Jackson 7947
Los Angeles, Calif, 1709 W 8 st Drexel 4231
Milwaukee, Wisc, 4337 N Oakland av Woodroof 2-2441
New Orleans, La, 2178 Esplanada av Valley 5221
New York City, 30 Church st Cortlandt 7-4256
Philadelphia, Pa, 403 City Centre Bldg Locust 7-1123
Pittsburgh, Pa, 902 Oliver Bldg Atlantic 2530
San Francisco, Calif, 424 Sharon Bldg Sutter 1-0926
Schenectady, N Y, 207 State st 4-7991
Seattle, Wash, 217 9 av SE 7192
St Louis, Mo, 4030 Chouteau av Newstead 6077
St Paul, Minn, 588 Mt Curve Blvd Emerson 9793
Baker Instrument, 17 S Day st, Orange, N J
Baker Mfg Co, 524 Stamford av, Springfield, Ill
Baker-Rauling Co, The, 1209 W 80 st, Cleveland, O
Barnstead Still & Sterilizer Co Inc, 2 Lanesville Terrace, Forest Hills, Boston, Mass
Baroid Sales Div, Nat'l Lead Co, Los Angeles, Calif
Bartlett & Snow Co, C O, 6200 Harvard av, Cleveland, O
BEACH-RUSS CO, 44 Church st, New York, N Y Cortlandt 7-1116
Beaumont Birch Co, 1526 Race st, Phila, Pa
Beidin Brick Co, P O Box 910, Canton, O
Belke Mfg Co, 947 N Cicero av, Chicago, Ill
Baltimore, Md, 207 E Redwood st Plaza 2350
Bellmyre, Allen Co, 431 Fayette av, Mamaroneck, N Y
BELMONT SMELTING & REFINING WKS, INC,
B'klyn, N Y, 322 Belmont av Dickens 2-4900
Bemis Bros Bag Co, 111 No Fourth st, St Louis, Mo
Berkefeld Filter Co, 125 E 24 st, N Y C
Best & Co, Edward, 222 Purchase st, Boston, Mass
Bethlehem Foundry & Machine Co, 225 W 2 st, Bethlehem, Pa
Bethlehem Steel Co, 225 W 2 st, Bethlehem, Pa
Binks Mfg Co, 3114-40 Carroll av, Chicago, Ill
Bird Machine Co, South Walpole, Mass
Bishop & Co, J, Malvern, Pa
BLACKMER PUMP CO, 1910 Century av, S W
Grand Rapids, Mich 5-9211
Atlanta, Ga, 1155 Boulevard N E Vernon 9501
Baltimore, Md, 14 S Calverton rd Lafayette 3922
Cambridge, Mass, Kendall Square Bldg, 238 Main st
Chicago, Ill, 608 S Dearborn st Harrison 1494
Cleveland, O, 1120 Chester av
Dayton, O, 204 Hopeland st Hemlock 8474
Denver, Colo, 1328 19 st
Des Moines, Iowa, E First & Court av Ph 4-3231
Detroit, Mich, 3160 Grand River av
Erie, Pa, 102 W 9 st 22-922
Houston, Tex, 3227 Milam st Jackson 21887
Indianapolis, Ind, 128 E N Y st
Kalamazoo, Mich, Amer National Bank Bldg 28513
Kansas City, Mo, B M A Bldg We 1463
Lackawanna, N Y, 158 Lincoln av Woodlawn 1300
Los Angeles, Calif, 415 S Central av Tucker 5758
Memphis, Tenn, 2287 Jackson av Jackson 2287
Milwaukee, Wisc, 1133 N Van Buren st B'way 2888
Minneapolis, Minn, 808 La Salle av Atlantic 5606
New York, N Y, 71 Murray st Barclay 7-8338
Omaha, Neb, 1006 Douglas st Atlantic 0871
Philadelphia, Pa, Wilford Bldg Rittenhouse 2212
Pittsburgh, Pa, 915 Union Trust Bldg Court 8752
Rochester, N Y, 33 University av
Salt Lake City, Utah, 267 W First st Wasatch 6693
San Francisco, Calif, 98 Folsom st Garfield 7734
Seattle, Wash, 1757 First av S Main 1121
St. Louis, Mo, 1516 Pine st Garfield 3012
Syracuse, N Y, 349 Erie Blvd West 3-5476
Tulsa, Okla, 200-206 N Denver 52151
Williamsport, Pa, 442 Tinsman av, Kenmar Park 7023

BLACKMER PUMP CO, (cont'd)
Youngstown, O, 3931 Market st **22312**
Black, Silvalis & Bryson Inc, 15 N Cincinnati st, Tulsa, Okla
Blaw-Knox Div, Blaw-Knox Co, Farmers Bank bldg, Pittsburgh, Pa
BLICKMAN INC, S, 3100 Gregory av, Weehawken, N J **Union 3-4800**
Bond Crown & Cork Co, Wilmington, Del
Bonded Scale & Machine Co, 99 Bellview, **Columbus, O**
BONNOT CO, 848 Market av, North Canton, Ohio
Bowser, 1317 E Creighton av, Ft Wayne, Ind
Boyle Mfg Co, 5100 Santa Fe av, Los Angeles, Calif
Bradley Co, Allen, 136 W Greenfield av, Milwaukee, Wis
Brady Conveyors Corp, 20 W Jackson blvd, Chicago, Ill
Bridgeport Brass Co, Bridgeport, Conn
Brighton Copper Works, 2150 Colerain av, Cincinnati, Ohio
BRILL EQUIPT CO, 2401 3 av, New York, N Y **Cypress 2-5703**
Bristol Co, Waterbury, Conn
Brown Fintube Co, The, Elyria, O
Buckeye Cooperage Co, 3800 Orange av, Cleveland, O
Buckeye Fraction Ditcher Co, Findlay, O
BUFLOVAK EQUIPMENT DIV of Blaw-Knox Co, 1579 Fillmore av,
Buffalo, N Y **Fillmore 2100**
Chicago, Ill, 1636 Monadnock Bldg **Harrison 8043**
New York, N Y, 295 Madison av **Lexington 2-0185**
St Louis, Mo, 2217 Olive st **Chestnut 6340**
Buffalo Meter Co, 2917 Main st, Buffalo, N Y
Buffalo Weaving & Belting Co, 260 Chandler st, Buffalo, N Y
Builders-Providence, Inc, 345 Harris av, Providence, R I
Bump Pump Co, La Crosse, Wis
Burgess-Parr Co, Foot of Exchange St, Freeport, Ill
BUTCHER CO, L H, 3628 E Olympic, Los Angeles, Calif **Angelus 2-4101**

C

C-O-Two Fire Equipment Co, P O Box 390, U S H'way 1, Newark, N J
Caldwell Co Inc, W E, 12530 Brook st, Louisville, Ky
CAMBRIDGE INSTRUMENT CO, 3782 Grand Central Terminal, N Y **Murray Hill 6-0335**
Chicago, Ill
Philadelphia, Pa
Cambridge Wire Cloth Co, 1735 Washington st, Cambridge, Md
Canister Co, Inc, The, Phillipsburg, N J
Carborundum Co, Perth Amboy, N J
Carlson Inc, G O, Thorndale, Penn
CAREY MFG CO, THE PHILIP, 8600 Anthony Wayne av, Lockland,
Cincinnati, O **Valley 3000**
Carnegie-Illinois Steel Corp, Carnegie bldg, Pittsburgh, Pa
Carpenter Container Corp, 147 41 st, Brooklyn, N Y
Carpenter Steel Co, Reading, Pa
Carrier Corp, 300 South Geddis st, Syracuse, N Y
Carter Co Inc, H V, 52 Beale st, San Francisco, Calif
Cellulo Co, The, Sandusky, O
Central Paper Co, Menasha, Wis
Central Scientific Co, 1700 Irving Park Rd, Chicago, Ill
Century Electric Co, 1806 Pine st, St Louis, Mo
Cerium Metals Corp, 153 Waverly pl, New York, N Y
CHAPMAN VALVE MFG CO, THE, Indian Orchard (Springfield)
Mass **Springfield 8331**
Chalmers Mfg Co, Allis, Milwaukee, Wisc
Chase Bag Co, 155 East 44 st, New York, N Y
Chemical Construction Corp, 350 5 av, N Y
Chemical Engineering Sales Co, 2967 S La Salle st, Chicago, Ill
Chemical Equipment Co, P O Box 3098, Terminal Annex, Los Angeles, Calif
CHEMICAL & PROCESS MACHINERY CORP, 146 Grand st,
New York, N Y **Worth 4-8130**
Chemicolloid Labs Inc, 30 Church st, New York, N Y
Akron, O, 880 S High st
Chicago, Ill, 400 W Madison
Detroit, Mich, 4415 Joy Rd
Los Angeles 2464 Enterprise st
Chemsteel Construction Co Inc, Chemsteel bldg, Pittsburgh, Pa
Cherry-Burrell Corp, 427 W Randolph st, Chicago, Ill
Chicago Bridge & Iron Co, 332 South Michigan av, Chicago, Ill
Chicago Car Seal Co, 834 N Western av, Chicago, Ill
Chicago Metal Hose Corp, 1315 South Third av, Maywood, Ill
Chicago Pneumatic Tool Co, 8 E 44 st, New York, N Y
Chiksan Co, Brea, Calif
Christian Becker Inc, **Clifton, N J**
Cincinnati Industries Inc, 502 Station av, Cincinnati, O
Circo Products Co, 6531 Euclid av, Cleveland, O
Clark Bros Co Inc, Olean, N Y
Clark Equipment Co, Industrial Truck Div, 114 Springfield av,
Battle Creek, Mich
Cleaver Brooks Co, 327 E Keefe av, Milwaukee, Wisc
Cleveland Coppersmithing Works, Stone av, N W, Cleveland, O
Clipper Mfg Co, 2800 Warwick, Kansas City, Mo
Clow & Sons, James B, 201-299 N Talman av, Chicago, Ill
Cochrane Corp, 3154 N 17 st, Philadelphia, Pa
Coleman Instruments Inc, 315 Madison av, Maywood, Ill
Colloid Equipment Co Inc, 80 Church st, New York, N Y
Colonial Alloys Co, Ridge av & Crawford st, Philadelphia, Pa
Colorado Iron Wks Co, 1624 17th st, Denver, Colo
Colton Co, Arthur, 3400 E Lafayette, Detroit, Mich
Combustion Engineering-Superheater Inc, 1308 N Branch st, Chicago, Ill
Commercial Research Lab Inc, 20 Bartlett, Detroit, Mich
Connor, W B, Engineering Corp, 114 E 32nd st, New York, N Y
Consolidated Eng Corp, 620 N Lake av, Pasadena, Calif
CONSOLIDATED PRODUCTS CO, INC, 13-21 Park Row,
New York, N Y **Barclay 7-0800**
Consolidated Siphon Supply Co, 22 Wooster st, New York, N Y
CONTINENTAL CAN CO INC, Paper Converting Div, 905 S Glenn st,
Van Wert, O **2611**
CONTINENTAL CAN CO INC, 100 E 42nd st, N Y Murray Hill 3-4100
Baltimore, Md, 3500 E Biddle st **Broadway 6700**
Chicago, Ill, 4622 W North av **Spaulding 8460**
Cincinnati, O, 2510 Highland av, Norwood Sta **Jefferson 2201**
Denver, Colo, 241 South Cherokee st **Spruce 2662**
Detroit, Mich, 1900 E Jefferson av **Fitzroy 1300**
Houston, Tex, 100 N Greenwood st **Woodcrest 6-2661**
Jersey City, N J, 10th & Cole sts **Journal Square 2-0750**
Kansas City, Mo, 1400 Guinotte av **Victor 7250**
Los Angeles, Calif, Box 2055, Terminal Annex **Angelus 7111**
Malden, Mass, 650 Eastern av **Malden 0621**
Memphis, Tenn, 265 West Trigg av **9-1622**

CONTINENTAL CAN CO. (cont'd)
New Orleans, La, 501 N Alexander st **Uptown 7100**
Philadelphia, Pa, 1500 Walnut st **Pennypacker 1265**
St Louis, Mo, 5221 Natural Bridge av **Evergreen 3050**
St Paul, Minn, 739 Pillsbury av **Nester 3063**
San Francisco, Calif, 155 Montgomery st **Garfield 7800**
Syracuse, N Y, 1018 E Water st **2-2541**
Wheeling, W Va, Box 1030 **Warwood 700**
Cooper Alloy Foundry Co, 130 Bloy st, Hillside, N J
Cooperative Industries Inc, 100 Oakdale rd, Chester, N J
CORNELL MACHINE CO INC, 100 Park av, N Y Murray Hill 9-2266
CORNING GLASS WKS, Corning, N Y **372**
Corson, Inc, G & W H, Plymouth Meeting, Pa
CROLL-REYNOLDS CO, 17 John st,
New York, N Y **Cortlandt 7-5531**
Chicago, Ill, 20 N Wacker Dr **Randolph 2326**
CROWN CAN CO, H st & Erie av, Philadelphia, Pa Jefferson 3-5000
New York, 60 E 42nd st **Vanderbilt 6-5179**
Cuno Engineering Co, 80 South Vine st, Meriden, Conn
Curtis Mfg Co, 1905 Kienlen av, St Louis, Mo
Custodis Construction Co, 25 Broadway, New York, N Y
Cyclotherm Corp, Oswego, N Y

D

Darling Valve & Mfg Co, Foot of Walnut st, Williamsport, Pa
DAVIS ENGINEERING CORP, 1064 E Grand st, Elizabeth, N J
Elizabeth 2-6780
New York, N Y, 30 Rockefeller Plaza **Circle 6-5650**
Dayton Dowd Co, Second and York sts, Quincy, Ill
Debothezat Fans Div, Amer Machine & Metals Inc, E Moline, Ill
De Laval Separator Co, 165 Broadway, N Y C
De Laval Steam Turbine Co, Nottingham Way, Trenton, N J
DENVER EQUIPT CO, 1400 17 st, Denver, Colorado **Cherry 4466**
DENVER FIRE CLAY CO, 2301 Blake st, Denver, Colo, Tabor 0251
El Paso, Texas, 209 Mills Bldg **Ma 2456**
New York, N Y, 120 B'way **Cortlandt 7-2778**
Salt Lake City, 225 West South Temple st **4-5545**
Despatch Oven Co, 619 Southeast 8 st, Minneapolis, Minn
Devine Mfg Co, J P, Oliver Bldg, Pittsburgh, Pa
Dezurik Shower Co, Sartell, Minn
Diamond Iron Works, Inc, 1834 N 2 st, Minneapolis, Minn
Dietert Co, Harry W, 9330 Roselawn av, Detroit, Mich
Dicalite Div, Great Lakes Carbon Corp, 612 S Flower st, Los Angeles, Calif
Dillon & Co, Inc, 5410 W Harrison, Chicago, Ill
Dings Magnetic Separator Co, 4734 W Electric av, Milwaukee, Wis
DISTILLATION PRODUCTS INDUSTRIES DIV, Eastman Kodak Co,
Rochester, N Y **Glenwood 1877**
Dixie Machinery Mfg Co, 4400 Goodfellow Blvd, St Louis, Mo
Dixon Crucible Co, Joseph, Wayne & Monmouth sts, Jersey City, N J
DORR CO, Barry Place, Stamford, Conn **Stamford 4-1151**
Atlanta, Ga, 800 Peachtree, N E
Chicago, Ill, 221 No LaSalle st
Denver, Colo, Cooper bldg
Los Angeles, Calif, 811 W 7 st
New York, N Y, 570 Lexington av
Philadelphia, Pa, 12 S 12 st
DOW CHEMICAL CO, Midland, Mich **Midland 500**
Downingtown Iron Works, Downingtown, Pa
Draco Corp, 4030 East 116 st, Cleveland, O
Drever Co, The, 748 E Venango st, Phila, Pa
Duraloy Co, The, Scottdale, Pa
Dura Metallic Corp, 2104 Factory st, Kalamazoo, Mich
DURIRON COMPANY INC, 450 N Findlay st, Dayton, O Kenmore 5161
Buffalo, N Y, Jackson bldg **Washington 7504**
Chicago, Ill, 208 S LaSalle st **Dearborn 2-6987**
Cleveland, Ohio, Caston bldg **Cherry 7055**
Dayton, Ohio, Box 1019 **Kenmore 5161**
Decatur, Georgia, Box 432 **Crescent 2253**
Detroit, Mich, 1249 Washington av **Woodward 2-4601**
Houston, Texas, M & M bldg **Charter 4-9508**
Knoxville, Tenn, 131 Allen st
New York, N Y, 350 5 av **Bryant 9-4132**
New York, N Y, 17 E 42 st **Murray Hill 7-5723**
Phila, Pa, 1505 Race st **Spruce 4-5593**
Pittsburgh, Pa, 7 & Liberty avs **Atlantic 4252**
Wilmington, Del, Front & French sts **Wilmington 5-0264**
Worcester, Mass, 29 Pearl st **Worcester 4-7909**
Dyer Co Inc, W H, 1859-60 Railway Exchange Bldg, St Louis, Mo

E

Eagle Industries, 110 Washington st, N Y
Eagle-Picher Co, The, American Bldg, Cincinnati, O
Eastern Industries Inc, 296 Elm st, New Haven, Conn
Eberbach & Son Co, Inc, 200 E Liberty st, Ann Arbor, Mich
Eclipse Air Brush Co, Pneumix Div, 200 Park av, Newark, N J
Eclipse Fuel Engineering Co, 703 S Main st, Rockford, Ill
Economic Machinery Co, Worcester, Mass
Economy Engineering Co, 2658 W Van Buren st, Chicago, Ill
Edge Moor Iron Co, Edge Moor, Del
Eimco Corp, The, 636 S 4 West st, Salt Lake City, Utah
ELECTRIC HOTPACK CO INC, 5035 Cottman av,
Philadelphia, Pa **Devonshire 3-1700**
Electro Chem Supply & Eng Co, 752 Broad st, Emmaus, Pa
Electro Lift Inc, 30 Church st, New York, N Y
ELECTRO-METALLURGICAL DIV, Union Carbide & Carbon Corp,
30 E 42 st, New York, N Y **Murray Hill 7-8000**
Elgin Softener Corp, Elgin, Ill
Elliott Co, Jeannette, Pa
Elwell-Parker Electric Co, 4520 St Clair av, Cleveland, O
Emerson-Scheuring Tank Co, 21st & Martindale av, Indianapolis, Ind
Emery-Carpenter Container Co, Carew Tower, Cincinnati, O
Emmett Machine & Mfg Inc, 2249 14 st, S W, Akron, Ohio
Emsco Equipment Co, 49 Hyatt av, Newark, N J
Engineering Maintenance Corp, 2967 S La Salle st, Chicago, Ill
Enthone Co, The, 442 Elm st, New Haven, Conn
Ensinger Union Corp, Angola, N Y
Erie Mfg Co, 629 Commerce bldg, Erie, Pa
Erman-Howell Div, Luria Steel & Trading Corp, 332 S Michigan av,
Chicago, Ill
Ermold Co, Edward, 652 Hudson st, New York, N Y
Ernst Magic Carrier Sales Co, 1450 Jefferson av, Buffalo, N Y

Ertel Engineering Corp, Kingston, N Y
Eureka Machine Co, 2606 Vega av, Cleveland, Ohio
Eutectic Welding Alloys Corp, 40 Worth st, N Y C
Exact Weight Scale Co, The, 1802 W 5th st, Columbus, O
Exolon Co, The, Tonawanda, N Y

F

Fairbanks Morse & Co, 600 South Michigan av, Chicago, Ill
Falk Corp, Milwaukee, Wis
Falstrom Co, 9 Falstrom Court, Passaic, N J
Farquhar Co, B F, Conveyor Div, York, Pa
Farval Corp, The, 3284 East 80 st, Cleveland, O
Ferguson Co, J L, Joliet, Ill
Ferner Co, Inc, The R Y, 110 Pleasant st, Boston, Mass
Fibre Drum Co, 20 N Wacker dr, Chicago, Ill
FILTER PAPER CO, 2442 S Michigan av, Chicago, Ill Calumet 5-3940
Filtration Engineers Inc, 154 Oraton st, Newark, N J
FIRST MACHINERY CORP, 157 Hudson st, N Y C Worth 4-5900
St Louis, Missouri
Fischer & Porter, Hatboro, Pa
FISHER SCIENTIFIC CO, 717 Forbes st, Pittsburgh, Pa Express 1330
Fleming Chem Co, The, 133 Front st, New York, N Y
FLEXOVEYOR MFG CO, 1220 S Acoma st, Denver, Colo Race 6305
Foote Bros Gear & Machine Corp 5225 South Western Blvd. Chicago, Ill
Foster Engineering Co, 835 Lehigh av, Union, N J
Foster Pump Works Inc, 55 Washington st, Brooklyn, N Y
Fostoria Pressed Steel Corp, Fostoria, Ohio
Foxboro Co, The, Foxboro, Mass
Frantz Co Inc, S C, 161 Grand st, New York, N Y
Frick Co, Waynesboro, Pa
Fuller Co, Catasauqua, Pa
FULTON BAG & COTTON MILLS, Box 1726, Atlanta, Ga Main 1111
Chicago, Ill, 725 Cooper Bldg
Chicago, Ill, 222 West Adams st
Dallas, Tex, 215 N Preston st
Denver, Colo
Kansas City, Kans, 7th & Walker av
Minneapolis, Minn, E Hennepin av & Taft
New Orleans, La, 1100 S Peters
New York City, 434 Broadway
Oklahoma City, Okla, 814 Insurance Bldg
St Louis, Mo, 3rd & Cedar st
Fumeral Co, P O Box 239, Racine, Wis

G

Gardner-Denver Co, S Front st, Quincy, Ill
Gardner Lab Inc, Henry A, 4723 Elm st, Bethesda, Md
Garlock Packing Co, Palmyra, N Y
Gatke Corp, 228 N Lasalle st, Chicago, Ill
Gaylord Container Corp, 111 North Fourth st, St Louis, Mo
Gehnrich Oven Div, The, 200 Eliot st, Fairfield, Conn
GELB & SONS INC, R, State Highway 29, Union, N J Unionville 3-4900
Gelber Co, Samuel S, 162 N Clinton st, Chicago, Ill
General Alloys Co, 405 West First st, Boston, Mass
Gen Amer Transportation Corp, 135 S LaSalle st, Chicago, Ill
GENERAL CERAMICS AND STEATITE CORP, Keasbey, N J
Rector 2-8768
Buffalo, N Y, 610 Jackson Bldg Washington 0128
Chicago, Ill, 20 N Wacker Dr Randolph 7326
Chicago, 205 S La Salle st Central 6914
Los Angeles, 415 S Central av Mutual 6494
New York, N Y, 30 Broad st Hanover 2-8556
Portland, Oregon, 410 New Fliedner Bldg Beacon 1090
San Francisco, Monadnock Bldg Douglas 8193
Tacoma, Tacoma Bldg Main 4231
GENERAL CERAMICS & STEATITE CORP, Chemical & Equipt Div, Keasby, N J Perth Amboy 4-5100
GENERAL CONTROLS CO, 801 Allen av, Glendale, Calif
Gen Detroit Corp, 2270 E Jefferson av, Detroit, Mich
General Electric Company, 1 River rd, Schenectady, N Y
General Machine Co of N J, 398 Market st, Newark, N J
General Refractories Co, 1600 Real Estate Trust Bldg, Phila, Pa
George & Sherrard Paper Co, 220 East 42 st, New York, N Y
Geuder, Paeschke & Frey Co, 308 N 15 st, Milwaukee, Wis
Girdler Corp, The, Louisville, Ky
Giese & Son, August, 332 W 21 st
Glascote Prods Inc, 20900 St Clair av, Cleveland, O
Glasscraft Co, 5210 E Olympic Bldg, Los Angeles, Calif
Glens Falls Machine Works Inc, Glens Falls, N Y
Globe Chemical Co, Murray Rd & Big 4 R R, Cincinnati, O
Globe Steel Tubes Co, 3860 W Burnham st, Milwaukee, Wisc
Goetz Gasket & Packing Co, Allen av, New Brunswick N J
GOLDEN-ANDERSON VALVE SPECIALTY CO, 207 Keenan Bldg, Pittsburgh, Pa Atlantic 1-5946
GOODALL RUBBER CO INC, Whitehead rd, Trenton, N J Trenton 2-6175
Goodrich Co, B F, 500 S Main st, Akron, O
Goodyear Tire & Rubber Co, Akron, O
Goslin-Birmingham Mfg Co, Box 631, Birmingham, Ala
Gotham Instrument Co Inc, 149 Wooster st, N Y
Goulds Pumps Inc, Seneca Falls, N Y
Gow-Mac Instrument Co, 32 Lawrence st, Newark, N J
Gray-Mills Company, 1943 Ridge av, Evanston, Ill
Great Western Mfg Co, Leavenworth, Kansas
Green Fuel Economizer Co Inc, The, Beacon, N Y
Greene Mfg Co, 2100 Fairmount av, Phila, Pa
Greene Tweed & Co, N Wales, Pa
Greer Co, J W, 119 Windsor st, Cambridge, Mass
GREIF BROS, COOPERAGE CORP, Fibre Drum Div, 137-147 41 st, Bklyn, N Y Sterling 8-2320
Buffalo, N Y, 1200 Niagara st Garfield 1450
Phila, Pa, 1823 E Verango st Delaware 0653
GREINER CO, 20-26 N Moore st, New York, N Y Digby 9-0660
Grucom-Russell Co, 265 Madison av, N Y
Gruendler Crusher & Pulverizer Co, 2915 N Market st, St Louis, Mo
Gulf State Paper Corp, Tuscaloosa, Ala
GUMP CO, B F, 1347 S Cicero av, Chicago, Ill Bishop 2-3050
Gwilliam Co, 1360 Furman st, Brooklyn, N Y

H

Hamilton Mfg Co, 18th st, Two Rivers, Wisc
Hammond Bag & Paper Co, Wellsburg, W Va
Hammond Drierite Co, 120 Dayton av, Xenia, O
Handy & Harman, 82 Fulton st, New York, N Y
Hanovia Chem & Mfg Co, Chestnut & RR Aves, Newark, N J
Harbison-Walker Refractories Co, Pittsburgh, Pa
Hardinge Co Inc, 240 Arch st, York, Pa
Harnischfeger Corp, 4595 W National av, Milwaukee, Wisc
Harris & Co., Arthur, 212 N Aberdeen st, Chicago, Ill
Hasco Valve & Machine Co, 1819 W St Paul av, Milwaukee, Wis
Hauck Mfg Co, 123-133 10th st, B'klyn, N Y
Hauser-Stander Tank Co, The, 4838 Spring Grove av, Cincinnati, O
HAYNES STELLITE DIV, Union Carbide & Carbon Corp, Kokomo, Ind
Hazel-Atlas Glass Co, 18th & Jacob sts, Wheeling, W Va
Heat & Power Co Inc, 70 Pine st, New York, N Y
Heil Process Equipment Corp, 12901 Elmwood, Cleveland, O
Hendrick Mfg Co, Carbondale, Pa
Hercules Filter Corp, 206 21 av, Paterson, N J
Hersey Mfg Co, 381 East st, So Boston, Mass
Hevi Duty Electric Co, 4212 W Highland Blvd, Milwaukee, Wis
Hewitt Rubber Div, Hewitt-Robins Inc, 240 Kensington av, Buffalo, N Y
Hills McCanna Co, 2349 Nelson st, Chicago, Ill
Hinde & Dauch Paper Co, The, 407 Decatur st, Sandusky, O
Hodgman Rubber Co, Framingham, Mass
Hollingsworth & Whitney, 60 Batterymarch st, Boston, Mass
Holly Pneumatic Systems Inc, 15 E 40 st, New York, N Y
Homestead Valve Mfg Co, P O Box 19, Coraopolis, Pa
Hormann & Co Inc, F R, 186 Joralemon st, B'klyn, N Y
Hoskins Mfg Co, 4445 Lawton av, Detroit, Mich
Hough, Frank G, Co, Libertyville, Ill
Houchin Machinery Co Inc, Van Winkle av, Hawthorne, N J 3-8881
Howard Engineering-Mfg Co, Cincinnati, O
Howard Foundry Co, 4900 Bloomingdale Rd. Chicago, Ill
HOWE & FRENCH INC, 99 Broad st, Boston, Mass Hancock 5910
HUBER SALES ENGINEER, R B, 216 Tremont st, Boston, Mass Hubbard 2-1454
Hydraulic Press Mfg Co, 3006 Marion rd, Mount Gilead, Ohio
Hydropress Inc, 570 Lexington av, New York, N Y
HYSTER CO, 2902-91 N E Clackamas, Portland, Oregon
Chicago, Ill, 4245 W Cermak rd Lawndale 14064
Memphis, Tenn, 725 Florida st
Milwaukee, Wis, 748 W Winnebago st Daly 82267
New Orleans, La, 327-329 N Diamond st Tulane 8601
New York, N Y 420 Lexington av Murray Hill 6-1537
Peoria, Ill, 208 E State st 4-6442

I

Ideal Commutator Dresser Co, 1006 Park av, Sycamore, Ill
Ilg Electric Ventilating Co, 2850 N Pulaski av, Chicago, Ill
Illinois Cooperage Mfg Co, 220 State st, Chicago, Ill
ILLINOIS ELECTRIC PORCELAIN CO, Macomb, Ill 61
Illinois Testing Lab Inc, 420 N La Salle st, Chicago, Ill
ILLINOIS WATER TREATMENT CO, 859 Cedar st, Rockford, Ill 3-8851
Los Angeles, Calif, 6253 Hollywood blvd
New York, N Y, 7310 Empire State Bldg
Imperial Electric Co, 64 Ira av, Akron, Ohio
Independent Filter Press, 240 48th st, Brooklyn, N Y
Indium Corp of America, The, 805 Watson Place, Utica, N Y
Industrial Engineers, 8 Lister av, Newark, N J
INDUSTRIAL FILTER & PUMP MFG CO, 1431 W Carroll av, Chicago, Ill Seeley 3-3632
Industrial Instruments Co, 17 Pollack av, Jersey City, N J
Industrial Process Engrs, 5209 Hudson av, W N Y, N J
Industrial Prods Co, 3015 N 4 st, Phila, Pa
Industrial Service Labs, Div of Amer Bio-Synthetics Corp, 1128 N Water st, Milwaukee, Wisc
Ingersoll-Rand, 11 Broadway, New York, N Y
Inland Steel Container Co, 6832 S Menard av, Chicago, Ill
International Emulsifiers Inc, 2409 Surrey Court, Chicago, Ill
International Engineering Inc, Dayton, O
International Equipment Co, 1284 Soldiers Field rd, Boston, Mass
International Nickel Co Inc, 67 Wall st, New York, N Y
International Paper Co, 220 E 42 st, N Y C
International Paper Co, Bagpak Div, 220 E 42 st, New York, N Y
International Salt Co Inc, Scranton, Pa
INTERNATIONAL SELLING CORP, 70 Pine st, New York, N Y Whitehall 4-7490
Irving Subway Grating Co, Inc, 50-37 27th st, L I City, N Y
Iselin Jefferson Co, Inc, 90 Wall st, N Y

J

JABSCO PUMP CO, 2031 Lincoln st, Burbank, Calif Stanley 7-3391
J & L Steel Barrel Co, 70 E 45 st, New York, N Y
Jacobowitz Co, Chas S, 3080 Main st, Buffalo, N Y
Jacobs Cooperage Co, K W, 1907 St Paul av, Milwaukee, Wis
JACOBY-TARBOX CORP, 810 Nepperhan av, Yonkers, N Y Yonkers 5-8400
Jeffrey Mfg Co, The, 848-99 North 4 st, Columbus, O
Jenkins Bros, 80 White st, New York, N Y
Jerguson Gage & Valve Co, Somerville, Mass
JOHNS-MANVILLE, 22 E 40 st, New York, N Y Lexington 2-7400
Johnson Corp, Three Rivers, Mich
JOHNSON & JOHNSON, 4949 W 65 st, Chicago, Ill Portsmouth 7-0800
JOHNSON & JOHNSON—Filter Div, 4943 W 65th st, Chicago, Ill Portsmouth 7-0800
New Brunswick, N J New Brunswick 400
Johnson Service Co, Milwaukee, Wisc
Joshua Hendy Iron Wks, Pomona Pump Co Div, 206 E Commercial st, Pomona, Calif
Joy Mfg Co, Dept. 23, Oliver Bldg, Pittsburgh, Pa
Justrite Mfg Co, 2061 Southport av, Chicago, Ill

K

Kaye & McDonald, Inc, 15 Central av, West Orange, N J
Keasbey & Mattison Co, Ambler, Pa

Keckley, O C. Co, 400 W Madison st, Chicago, Ill
Kellogg Co, M W, 225 Broadway, N Y C
Kennedy Valve Mfg Co Elmira, N Y
Kensico Tube Co Inc, Hubbell's Crossroad, Mt Kisco, N Y
Kent Machine Works Inc, 39-41 Gold st, Brooklyn, N Y
Kent Mill Co, 10 Rapelyea st, Bklyn, N Y
Kewaunee Mfg Co, Adrian, Mich
Kidde & Co Inc, 675 Main st, Belleville, N J
Kieffer Machine Co, Kari, The, 919 Martin st, Cincinnati, O
Kimberly-Clark Corp, 8 So Michigan av, Chicago, Ill
Kimble Glass Div, Owens Ill Glass Co, Toledo, O
King Labs, 127 Solar st, Syracuse, N Y
Kingsford Foundry & Machine Wks, Oswego, N Y
Kingsland Cooperage Co, 308 Miller st, Newark, N J
Kinnear Manufacturing Co, 200-250 Fields av, Columbus, O
KIRK & BLUM MFG CO, 2855 Spring Grove av, Cincinnati, O **Kirby 5250**
KNIGHT, MAURICE A, 444 Kelly av, Akron, O **Parkway 1277**
Chicago, Ill, 203 N Wabash av State 2626
Cleveland, Ohio, 618 Fidelity Bldg Main 5143
New York, N Y, 55 W 42 st Chickering 4-6141
Niagara Falls, N Y, 903 United Bldg Phone 56
St Louis, Mo, 1934 Gravois st Grand 1582
San Francisco, Calif, 1033 Merchants Exchange Bldg Douglas 0371
Koch Engineering Co Inc, 335 W Lewis st, Wichita, Kansas
KOPPERS CO INC, Koppers Bldg, Pittsburgh, Pa Atlantic 1-6240
Korb-Pettit Wire Fabrics & Iron Wks, Inc, 1606 N Mascher st, Phil, Pa
Koven & Bros Inc L O, 154 Ogden av, Jersey City, N J
KRAFT BAG CORP, 630 5 av, New York, N Y **Circle 7-2860**
Kraft Forge Co, 5301 W Roosevelt Rd, Chicago, Ill

L

Laboratory Furniture Co, 37-18 Northern Blvd, L I C, N Y
LA BOUR CO INC, Elkhart, Ind **3518**
Ladish Co, Cudahy, Wisc
LaMotte Chemical Prod, York Rd, Towson, Md
Lamson Corp, Lamson st, Syracuse, N Y
Lawrence Machine & Pump Corp, 371 Market st, Lawrence, Mass
Lawrence Pump & Eng Co, Lawrence, Mass
Lebanon Steel Foundry, Lebanon, Pa
Lee Metal Products Co, Philipsburg, Pa
Lee Rubber & Tire Corp, Youngstown, O
Leeds & Northrup Co, 4970 Stenton av, Philadelphia, Pa
Lenape Hydraulic Pressing & Forging Co, P O Box 536, Westchester, Pa
Leval Filter Co, 925 Wrightwood av, Chicago, Ill
Lewellen Mfg Co, 1010 Michigan st, Columbus, O
Lewis, Charles S, & Co, Inc, 2207 Pine st, St Louis, Mo
Lewis Shepard Products, Inc, 119 Walnut st, Watertown, Mass
Leyman Mfg Corp, Central av, Cincinnati, O
Liberty Coppersmithing Co, N Howard st, Phila, Pa
Lift Trucks Inc, 2425 Spring Grove, Cincinnati, O
Lincoln Electric Co, 12818 Coit rd, Cleveland, O
Lincoln Engineering Co, 5701 Natural Bridge av, St Louis, Mo
Lindberg Engineering Co, 2450 W Hubbard st, Chicago, Ill
Linde Air Prods Co, The, 30 E 42 st, N Y
LINK-BELT CO, 300 W Pershing rd, Chicago, Ill **Boulevard 8-8100**
Albany, N Y, 444 B'way 5-3389
Atlanta, Ga, 1116 Murphy av S W Raymond 6101
Baltimore, Md, 2315 St Paul st Hopkins 7112
Birmingham, Ala, 2100 2nd av, North 4-6269
Boston, Mass, 136 Brookline av Commonwealth 6-1001
Buffalo, N Y, 295 Main st Washington 7707
Charlotte, N C, 112 S Tryon st 7523
Chicago, Ill, 300 W Pershing rd Boulevard 8-8100
Chicago, Ill, 2410 W 18th st Canal 6-2400
Cincinnati, O, 138 East Court st Ma 7662
Cleveland, Ohio, 1422 Euclid av Main 1-5468
Dallas, Tex, 500 Latimer st Riverside 5321
Denver, Colo, 1626 Wazee st Main 0321
Detroit, Mich, 5938 Linsdale av Tyler 4-1100
Duluth, Minn, 301 West First st Radisson 2915
Grand Rapids, Mich, 48 Division av N 9-8339
Houston, Tex, 3203 S Wayside Wentworth 5881
Huntington, W Va, 1009 5 av 39401
Indianapolis, Ind, 519 N Holmes av Market 9445
Indianapolis, Ind, 220 S Belmont av Market 5411
Jacksonville, Fla, 137 E Forsyth st 5-4980
Kansas City, Mo, 2630 Holmes st Victor 9-234
Los Angeles, Calif, 361-369 S Anderson st Angelus 6171
Louisville, Ky, 136 S 4 st Clay 6569
Milwaukee, Wis, 808 N 3 st Broadway 2-1674
Minneapolis, Minn, 200 Lyndale av N Atlantic 5575
Moline, Ill, 1608 5 av Moline 1748
Newark, N J, 31 Clinton st Mitchell 3-4021
New Orleans, 747 Tchoupetoulas st Raymond 5228
New York, N Y, 233 Broadway Digby 9-4210
Oakland, Calif, 1025 Harrison st Higate 4-4285
Philadelphia, Pa, Olney Foundry Div, 180 W Ducannon av Michigan 4-0456
Philadelphia, Pa, 2045 W Hunting Park av Radcliff 5-6000
Pittsburgh, Pa, 5020 Centre av Museum 1-0600
Portland, Ore, 1637 N W 14 av Atwater 6481
Salt Lake City, Utah, 121-135 Motor av 3-6727
San Francisco, Calif, 400 Paul av Juniper 7-6400
Seattle, Wash, 3405 6 av S Seneca 8200
Spokane, Wash, N 1303 Washington st Broadway 2131
St Louis, 317 N 11 st Chestnut 1777
Washington, D C, 740 Eleventh st, N W National 3400
Wilkes-Barre, Pa, 15 W Market st 2-5719
Wilmington, Del, 805 Orange st 5-1556
Link-Belt Speeder Corp, 1201 6 st, S W, Cedar Rapids, Iowa
Littleford Bros, 453 Pearl st, Cincinnati, O
Loeb & Son, H, 4643 Lancaster av, Phila, Pa
LOEB EQUIPMENT SUPPLY CO, 1923-C West North av, Chicago, Ill **Brunswick 8-5326**
Logan Engineering Co, 4901 Lawrence av, Chicago, Ill
LOS ANGELES CHEMICAL CO, 1960 Santa Fe av, Los Angeles, Calif **Tucker 2421**
Louisville Drying Machinery Unit of Gen Amer Transportation Corp, 139 S 4 st, Louisville, Ky
Ludlum Steel Corp, Brackenridge, Pa
Lumenite Electronic Co, 407 S Dearborn st, Chicago, Ill
Lummus Co, The, 385 Madison av, New York, N Y
Lunkenheimer Co, Box 360 Annex Station, Cincinnati, O
Luzerne Rubber Co, Trenton, N J
Lynchburg Foundry Co, Lynchburg, Va

M

McCullom Hoist & Mfg Co, Downers Grove, Ill
Machinery & Equipment Corp, 533 W B'way, New York, N Y
Machlett & Son, E, 220 E 23 st
Mack Sales Co, 1430 Delaware av, Buffalo, N Y
Mahr Mfg Co, 1834 N 2 st, Minneapolis, Minn **Minneapolis, Minn**
Manganese Steel Forge Co, Richmond st & Castor av, Phil, Pa
Manhattan Rubber Mfg Div, 163 Townsend st, Passaic, N J
Manning, Maxwell & Moore, Bridgeport, Conn
Marley Co, The, Fairfax & Marley rds, Kansas City, Kansas
Marsh Corp, James P, Skokie, Ill
Marshalltown Mfg Co, Marshalltown, Iowa
Mason Neilan Regulator Co, 15 Medway st, Boston, Mass
Master Electric Co, The, 126 Davis av, Dayton, O
Master Package Corp, Owen, Wis
Material Movement Industries, 310 S Michigan av, Chicago, Ill
McAlear Mfg Co, 15 N Cincinnati st, Tulsa, Okla
McKay Co, 1005 Liberty av, Pittsburgh, Pa
McQuay, Inc, 1600 B'way N E, Minneapolis, Minn
Mears-Kane-Ofeldt Inc, 1903 E Hagert st, Philadelphia, Pa
Mercer-Robinson Co Inc, 30 Church st, N Y
Merco Nordstrom Valve Co, 400 N Lexington av, Pittsburgh, Pa
MERCOID CORPORATION, THE, 4201 Belmont av, Chicago, Ill **Pensacola 6-2100**
Merrick Scale Mfg Co, 182 Autumn st, Passaic, N J
METAL HOSE & TUBING CO, W Clinton st, Dover, N J Dover 6-1050
Metallo Gasket Co, 20 Bethany st, New Brunswick, N J
METAL HYDRIDES INC, 16 Congress st, Beverley, Mass Beverley 1875
Metalab Equipment Corp, 1529 Dean st, B'klyn, N Y
Metro Boiler Co, 815 B'way, New York, N Y
MICHIGAN WIRE CLOTH CO, 2055 Howard st, Detroit, Mich Tashmoo 5-1124
Michigan Steel Casting Co, 420 Lexington av, N Y C
Mico Instrument Co, 80 Trowbridge st, Cambridge, Mass
Micronizer Co, The, Moorestown, N J
Midvale Co, Nicetown, Phila, Pa
Miller Co, J C, 55 Mt Vernon N W, Grand Rapids, Mich
Miller-Tompkins & Co, 513 Paterson av, E Rutherford, N J
MILTON ROY CO, 1382 E Mermaid Lane, Phila, Pa Wissahickon 7-8000
Milwaukee Valve Co, 2375 S Burrell st, Milwaukee, Wisc
Mine Safety Appliance Co, Braddock, Thomas & Meade sts, Pittsburgh, Pa
Mine and Smelter Supply Co, The, 1422 17th st, Denver, Colo
Minn Honeywell Regulator Co, 4427 Wayne av, Phila, Pa
Minneapolis Honeywell Regulator Co, 2704 Fourth av, Minneapolis, Minn
Minneapolis Honeywell Regulator Co, Industrial Div, 4493 Wayne & Windrion avs, Phila, Pa
Mitts & Merrill, 2009 S Water st, Saginaw, Mich
MIXING EQUIPMENT CO INC, 139 Mt Read blvd, Rochester, N Y
New York, N Y, 136 Liberty st Cortlandt 7-1157
Modine Mfg Co, 1532 Dekoven av, Racine, Wis
Monarch Mfg Co Wks Inc, 2501 E Ontario st, Phila, Pa
Moore Co, 800 S Missouri av, Marceline, Mo
Morehouse Industries, 1156 San Ferando rd, Los Angeles, Calif
Morris Machine Wks, Baldwinsville, N Y
Morse Brothers Machinery Co, 2900 Brighton blvd, Denver, Colo
Morse Rouiger Destructor Co, 205 E 42 st, N Y C
Multi Metal Wire Cloth Co, Inc, 1350 Garrison av, New York, N Y
Munning & Munning Inc, 202 Emmett st, Newark, N J
MURRAY MFG CO, D J, 1002-1024 Third st, Wausau, Wisc 4084

N

NASH ENGINEERING CO, 203 Wilson rd, So Norwalk, Conn **Norwalk 3-6651**
Albuquerque, New Mexico, 245 N Hermosa av
Atlanta, Georgia, 152 Nassau st, N W
Billings, Montana, 2916½ First av, N
Birmingham, Alabama, Comer bldg
Boston, Mass, Back Bay Sta, 335 Newbury st
Buffalo, N Y, 421 Chamber of Commerce
Chattanooga, Tenn, James bldg
Chicago, Ill, 53 W Jackson blvd
Cleveland, Ohio, Union Commerce bldg
Dallas, Texas, 4024 Swiss av
Denver, Colo, 1226-28 California st
Des Moines, Iowa, Masonic Temple bldg
Detroit, Mich, corner Fort & Beaubien sts
El Paso, Texas, Mills bldg
Houston, Texas, 1017 Rosine st
Indianapolis, Indiana, Architects & Builders bldg
Kansas City, Mo, 3252 Roanoke rd
Los Angeles, Calif, 1978 S Los Angeles st
Louisville, Ky, 519 Barret av
Miami, Fla, 65 N W 49 st
Memphis, Tenn, Exchange bldg
Minneapolis, Minn, 1111 Nicollet av
New Orleans, La, 816 Howard av
New York, N Y, 420 Lexington av
Omaha, Nebraska, 2311 Douglas st
Phila, Pa, 254 S 15 st
Pittsburgh, Pa, Oliver bldg
Portland, Oregon, Lewis bldg
Richmond, Va, American bldg
St Louis, Mo, 2855 Washington blvd
Salt Lake City, Utah, 44 W 8 South st
San Antonio, Texas, Insurance bldg
San Francisco, Calif, Sharon bldg
Seattle, Wash, 417 2 av S
Tulsa, Okla, Wright bldg
Washington, D C, American Security bldg
National Airoil Burner Co, 1348 East Sedgley av, Philadelphia, Pa
National Box & Lumber Co, 222 Pacific st, Newark, N J
NATIONAL CARBON DIV, Union Carbide & Carbon Corp, 30 E 42 st, New York, N Y **Murray Hill 7-8000**

National Cast Iron Pipe, Birmingham, Ala
National Engineering Co, 549 W Washington Blvd, Chicago, Ill
National Filter Corp, 147 W 22 st, New York, N Y
NATIONAL FILTER MEDIA CORP, 1717 Dixwell av, New Haven, Conn New Haven 2-5566
National Foam Systems Inc, Union & Adams sts, West Chester, Pa
National Lead Co, 111 Broadway, New York, N Y
National Pipe Bending Co, 101 River st, New Haven, Conn
National Radiator Co, Heat Transfer Div, 221 Central av, Johnstown, Pa
National Research Corp, Boston, Mass
National Research Corp, Eng Div, Cambridge, Mass
Nat'l Technical Labs, 820 Mission st, So Pasadena, Calif
Neptune Meter Co, 50 W 50th st, New York, N Y
Newark Steel Drum Co, Linden, N J
Newark Wire Cloth Co, 351 Verona av, Newark, N J
New England Quartz Co of New York, 450 7 av, New York, N Y
New England Tank & Tower Co, Everett, Mass
New Jersey Machine Corp, Willow av & 16 st, Hoboken, N J
Niagara Filter, 3109 Main st, Buffalo, N Y
Nicholson Company, 10 Rockefeller Plaza, New York, N Y
Nicholson & Co, W H, 196 Oregon st, Wilkes-Barre, Pa
Nieder Fused Quartz Co, 8 Babson Park av, Babson Park, Mass
Niles Crane & Hoist Corp, Shepard, Schuyler av, Montour Falls, N Y
NILES STEEL PRODS DIV, REPUBLIC STEEL CORP, 465 Walnut st, Niles, O Niles 2-2521
Nooter Corp, 1400 So 2nd st, St Louis, Mo
Nordberg Mfg Co, Milwaukee, Wis
Nordstrom Valve Div, Rockwell Mfg Co, 400 N Lexington av, Pittsburgh, Pa
North American Refractories Co, 1012 National City E 6th Bldg, Cleveland, O
Northern Blower Co, The, 6418 Barberton av, Cleveland, O
Northern Ordnance Inc, Minneapolis, Minn
Norton Co, Worcester, Mass
Nugent & Co, Wm W, 410 N Harmitage av, Chicago, Ill

O

Oat & Sons, Joseph, 232 Quarry st, Philadelphia, Pa
Ogden Filter Co, 4214 Santa Monica blvd, Los Angeles, Calif
Ohio Corrugating Co, Warren, O
Oliver United Filters Inc, 33 West 42 st, New York, N Y
Olson Filtration Engrs, 1624 N Kilbourn st, Chicago, Ill
Omega Machine Co, 345 Harris av, Providence, R I
Outterson Engineering Corp, Oswego, N Y
Owen-Corning Fiberglas Corp, Nicholas Bldg, Toledo, O
Owen-Illinois Can Co, 405 Madison st, Toledo, O
Owen-Illinois Glass Co, Ohio Bldg, Toledo, O
Ozark-Mahoning Co, Tulsa, Okla

P

Pacific Clay Prods, Los Angeles, Calif
Pacific Flush-Tank Co, 4241 Ravenswood av, Chicago, Ill
Package Machinery Co, E Long Meadow, Springfield, Mass
Palmer Thermometer Inc, The, 2501 Norwood av, Norwood, Cincinnati, O
Palmer Supplies Co, 1531 W 25 st, Cleveland, O
Palo-Myers Inc, 81 Reade st, N Y Cortlandt 7-3085
Pangborn Corp, 210 Pangborn Blvd, Hagerstown, Md
Parker Appliance Co, 17325 Euclid av, Cleveland, O
Parr Instrument Co, 211 53 st, Moline, Ill
PATTERSON-KELLEY CO INC, THE, 112 Warren st, E Stroudsburg, Pa Stroudsburg 820
Boston, Mass, 96A Huntington av Kenmore 9033
Chicago, Ill, Railway Exchange Bldg Harrison 0158
New York, N Y, 101 Park av Ashland 4-2155
Philadelphia, Pa, 1700 Walnut st Kingsley 4481
Peabody Engineering Corp, 580 5th av, New York, N Y
Peerless Bread Mach Co, Sidney, O
Peerless Pump Div, Food Machinery & Chemical Corp, 301 W av 26, Los Angeles, Calif
Pennsylvania Crusher Co, Liberty Trust Bldg, Phila, Pa
Pennsylvania Pump & Compressor Co, Easton, Pa
Perfektum Products Co, 300 4th av, New York, N Y
Perkin-Elmer Corp, Glenbrook, Conn
Permanente Prods Co, Kaiser Bldg, Oakland, Calif
Permutit Co, The, 330 W 42 st, N Y
Perrin & Co, Wm R, 313 W 23 st, Chicago, Ill
Perry Equipment Corp, 1518 W Thompson st, Phila, Pa
Petrometer Corp, 1 Star sq, L I City, N Y
Pfahler-Cleland Co, Galion, O
Pfaltz & Bauer, 350 5th av, New York
Pfaudler Co, The, 1000 West av, Rochester, N Y
Philadelphia Coppersmithing Co, Poplar Front & Brown sts, Philadelphia, Pa
Phillips Co, Thos, Akron, O
Phoenix Metal Cap Co, 2444 West 16 st, Chicago, Ill
Phoenix Precision Instrument Co, 3803 N 5 st, Phila, Pa
Photovolt Corp, 95 Madison av, New York, N Y
Pioneer Alloy Prods Co, 16601 Euclid av, Cleveland, O
Pioneer Rubber Co, Willard, O
Pipe Bending Machine Co, 37 Pearl st, Boston, Mass
Pittsburgh-Des Moines Steel Co, Neville Island, Pittsburgh, Pa
Pittsburgh Lectrodryer Co, Box 1766, Pittsburgh, Pa
Pittsburgh Pipe Cleaner Co, 433 Melwood st, Pittsburgh, Pa
Pittsburgh Steel Drum Co, 2240 Oliver Bldg, Pittsburgh, Pa
Plant Equipment Corp, 1354 Niagara st, Buffalo, N Y
PLASTICS DIV, CONTINENTAL CAN CO, Cambridge, O 2394
Plax Corp, P O Box 1019, Hartford, Conn
Plibrico Jointless Firebrick Co, 1300 Kingsbury st, Chicago, Ill
Plummer & Kershaw, 2757 Frankford av, Phila, Pa
Pneumatic Scale Corp, Ltd, North Quincy, Mass
Podbielniak Inc, 341 E Ohio st, Chicago, Ill
Pomona Pump Co, Sunnyvale, Calif
Portable Prods Corp, 233 B'way, New York, N Y
Portable Pump Co, Box 818 Central Sta, St Louis, Mo
Porter Co, H K, 1930 Oliver Bldg, Pittsburgh, Pa
Potdevin Machine Co, 1282 38 st, Bklyn, N Y
Powell Co, Wm, The, 2525 Spring Grove av, Cincinnati, O
Prater Pulverizing Co, 1515 S 55 st, Chicago, Ill
Precision Scientific Co, 3737 W Cortlandt st, Chicago, Ill
Precision Thermometer & Instrument Co, 1449 Brandywine st, Phila, Pa
Premier Mill Corp, 218 Genesee st, Geneva, N Y
Prentiss, R J, & Co, 80 John st, N Y
PRESSED STEEL TANK CO, 1499 South 66th st, Milwaukee, Wis Greenfield 6-6500
Chicago, Ill, 208 S LaSalle st
Cleveland, O, 225 Hanna Bldg
Los Angeles, Calif, 727 W 7th st
New York City, 52 Vanderbilt av
Pritchard & Co, J F, 2200 Fidelity Bldg, Kansas City, Mo
Process Equipment Div, Pittsburgh, Pa
Process Equipt Engineers, 300 Reed st, Belding, Mich
Proctor & Schwartz Inc, 7 & Tabor rd, Philadelphia, Pa
Production Instrument Co, 710 W Jackson blvd, Chicago, Ill
Productive Equipment Corp, 2926 W Lake st, Chicago, Ill
Proportioneers, Inc, 406 Harris av, Providence, R I
Protective Coating Inc, P O Box 56, Strathmoor Station, Detroit, Mich
Protectoseal Co, 1904 S Western av, Chicago, Ill
Prufcoat Lab Inc, 68 Main st, Cambridge, Mass
PULVERIZING MACHINERY CO, INC, 33 Chatham Rd, Summit, N J Summit 6-6340
Cincinnati, O
Philadelphia, Pa
San Francisco, Calif
Pump Corp, 162 N Clinton st, Chicago, Ill
Pyrene Manufacturing Co, 560 Belmont av, Newark, N J

Q

Quaker City Iron Works, Aramingo av & Ontario st, Philadelphia, Pa

R

R-B-H DISPERSIONS, Bound Brook, N J
Chicago, Ill, 612 N Michigan av
Cleveland, Ohio, 1220 Huron rd
Glendale, Mo, 878 Alexandra av
Wakefield, Mass, Box 145
R C Can Co, 101 Chambers st, St Louis, Mo
R-P & C Valve Div, American Chain & Cable Co, Inc, Reading, Pa
R-S Products Corp, 100 Berkley st, Phila, Pa
Rademaker Chem Corp, E Lake, Mich
Radio Receptor Co Inc, 251 W 19 st, New York, N Y
Randolph Labs Inc, 8 E Kinzie st, Chicago, Ill
Raybestos-Manhattan Inc, 61 Willett st, Passaic, N J
RAYMOND BAG CO, THE, Enoch dr, Middletown, O 2-5461
Raymond Pulverizer Div, Combustion Engrng Co, Inc, 1310 N Branch st, Chicago, Ill
Read Machinery Div, The Standard Stoker Co Inc, York, Pa
REED ROLLER BIT CO, P O Box 2119, Houston, Tex Woodcrest 6-8121
Refinery Supply Co, 621 E 4 st, Tulsa, Okla
Refractory & Insulation Corp, 120 Wall st, N Y
Republic Flow Meters Co, 2240 Diversey blvd, Chicago, Ill
Republic Metals Co, 273 Green st, B'klyn, N Y
Republic Rubber Div, Youngstown, O
REPUBLIC STEEL CORP, Republic Bldg, Cleveland, O Prospect 1-400
RESEARCH CORP, 405 Lexington av, New York, N Y Murray Hill 5-3035
Resisto Pipe & Valve Co, 263 Bridge st, East Cambridge, Mass
Revere Copper & Brass Inc, 230 Park av, New York, N Y
Revolvator Co, 2019 86 st, North Bergen, N J
Rheem Mfg Co, 30 Rockefeller Plaza, New York, N Y
Rhoades, R W, Metaline Co Inc, 50-17 Fifth st, L I City, N Y
Richardson Scale Co, 608 Van Houton av, Clifton, N J
Ritchie & Co, W C, 8817 Baltimore av, Chicago, Ill
ROBBINS & MYERS INC, 1345 Lagonda av, Springfield, O 3-6461
Chicago, Ill, 2400 W Madison st
Kansas City, Mo, 215 Pershing rd
Minneapolis, Minn, Foshay Tower
New York, N Y, 200 Varick st
Phila, Pa, 401 N Broad st
Roberts Filter Mfg Co, Darby, Pa
Robins Conveyors, Div Hewitt-Robins Inc, Passaic & Randolph sts, Passaic, N J
Robinson Air-Activated Conveyor Systems, Div Morse Boulgar Destructor Co, 211 E 42 st, N Y
Robinson Mfg Co, 30 Church st, New York, N Y
Rockwell Co, W S, 250 Eliot st, Fairfield, Conn
Rockwell Mfg Co, 400 N Lexington av, Pittsburgh, Pa
Rogers Co, Geo G, 225 W 34 st, New York, N Y
Roots-Connersville Blower Corp, Columbia at 12 st, Connersville, Ind
Roper Corp, George D, 509 Blackhawk Park av, Rockford, Ill
Ross Engineering Corp, J O, 350 Madison av, New York, N Y
Ross Heater & Mfg Co, 1434 West av, Buffalo, N Y
Royer Foundry & Machine Co, Kingston, Pa
R & S Products Corp, 100 Berkley st, Philadelphia, Pa
RUEHFEL CO INC, GEO, 107-20 101 av, Richmond Hill, N Y Virginia 7-1510
Russell Mfg Co, Middletown, Conn

S

Safety Clothing & Equipt Co, 7016 Euclid av, Cleveland, O
Safety Equipment Service Co, 223 Rose Bldg, Cleveland, O
St Regis Paper Co, 230 Park av, New York, N Y
Sandusky Cooperage & Lumber Co, 4066 Papin st, St Louis, Mo
SANDVICK STEEL INC, 111 8 av, New York, N Y Watkins 9-7150
Chicago, Ill, 186 N Michigan av
Cleveland, O, 1734 Columbus rd
Los Angeles, Calif, 4415 So Main st
Saranac Machine Co, Benton Harbor, Mich
Sanoray Lab, The, 670 Georgia av, Chattanooga, Tenn
Saroe Co Inc, 350 Fifth av, New York, N Y
Chicago, 222 N Bank Dr Superior 7578
Newark, 1028 Broad st Market 3-0208

Sargent & Co, H, 155 E Superior st, Chicago, Ill
Saverite Engineering Co, 1031 Clinton st, Hoboken, N J
Schaffer Poidometer Co, 2828 Smallman st, Pittsburgh, Pa
Schleicher & Schuell Co, 116-B W 14 st, New York, N Y
Schneible Co, Claude B, 2831 25 st, Detroit, Mich
Schnitzer Alloy Prods Co, 551 Pine st, Elizabeth, N J
Schutte & Koerting Co, 12th & Thompson sts, Phila, Pa
SCIENTIFIC GLASS APPARATUS CO, INC, 40 Ackerman st, Bloomfield, N J **Bloomfield 2-7200**
Selas Corp of Amer, The, Erie av & D st, Philadelphia, Pa
Service Caster & Truck Corp, The, Superior st, Albion, Mich
Service Labs Div of Amer Bio-Synthetics Corp, 710 W National av, Milwaukee, Wisc
SHARPLES CORP, Phila, Pa **Sagamore 2-9100**
Sheffield Tube Corp, 170 Broad st, New London, Conn
Shepard Niles Crane & Hoist Corp, Schuyler av, Montour Falls, N Y
Shepard Prods Inc, 125 Walnut st, Watertown, Mass
SHRIVER & CO INC, T, 874 Hamilton st, Harrison, N J **Harrison 6-2140**
Signode Steel Strapping Co, 2600 N Western av, Chicago, Ill
Simplex Valve & Meter Co, 6753 Upland st, Phila, Pa
Simpson Co, Orville, 1230 Knowlton st, Cincinnati, O
Sirch, C W, 2983 W 8 st, Los Angeles, Calif
Sly Mfg Co, W W, The, 4700 Train av, Cleveland, O
Smith Corp, A O, Box 584, Milwaukee, Wis
South Bend Air Prods, East Colfax st, South Bend, Ind
Southline Metal Prods Co, 2115 Sabine st, Houston, Tex
Southern Scientific Co Inc, 102 Walton st, Atlanta, Ga
Southwest Scientific Corp, 122 South st, Francis, Wichita, Kansas
Sowers Manufacturing Co, 1294 Niagara st, Buffalo, N Y
Sparkler Mfg Co, 212 Lake st, Mundelein, Ill
Spaulding Fibre Co Inc, 310 Wheeler st, Tonawanda, N Y
Speer Carbon Co, St Mary's, Pa
Spence Engineering Co, Inc, 82 Elm st, Walden, N Y
Spencer Lens Co, Buffalo, N Y
Spencer Turbine Co, 484 New Park av, Hartford, Conn
Sperry & Co, D R, Batavia, Ill
Spray Engineering Co, 114 Central st, Somerville, Mass
SPRAYING SYSTEMS CO, 3201 Randolph st, Bellwood, Ill **Esterbrook 8-8506**
Sprout, Waldron & Co, 1221 Sherman st, Muncy, Pa
Square D Company, 6060 Rivard st, Detroit, Mich
Squier Mfg Co, 490 Bway, Buffalo, N Y
Stacey Bros Gas Constructions Co, 5535 Vine st, Cincinnati, O
Standard Conveyor Co, North St Paul, Minn
STANDARD SCIENCE & SUPPLIES CO, 1234 N Paulina st, Chicago, Ill **Armitage 6-8737**
Standard Stoker Co Inc, York, Pa
Stanhope Inc, H C, 60 E 42 st, New York, N Y
STANLEY CO INC, WM W, 401 Broadway, New York, N Y **Canal 6-5420**
Staynew Filter Corp, 11 Center pk, Rochester, N Y
Stearns Magnetic Mfg Co, 672 South 28 st, Milwaukee, Wis
Stearns Mfg Co, Adrian, Mich
Stebbins Engineering & Manufacturing Co, 363 Eastern Blvd, Watertown, N Y
Steel & Alloy Tank Co, Newark, N J
Steel Barrel Co, J & L, 70 E 45 st, New York N Y
Stein Equipment Co, Dept R, 90 West st, New York, N Y
Stephen Jerry & Co, 495 Manhattan av, B'klyn, N Y
Stephens-Adamson Mfg Co, 599 Ridgeway av, Aurora, Ill
Sterling Supply Corp, 1 Porter st, Phila, Pa
Stevens Metal Prod Co, Niles, O
Stevens-Nelson Paper Corp, 109 E 31 st, New York, N Y
Stoffel Seals Co, N Y
Stok-A-Fire Co Inc, 6400 Olive Street Rd, St Louis, Mo
Stokes Machine Co, F J, 6002 Tabor Road, Olney, P O Phila, Pa
Stokes & Smith Co, Philadelphia, Pa
Straub Co, The, 4059 Ridge av, Phila, Pa
Strong, Carlisle & Hammond Co, 1392 W Third st, Cleveland, O
Struthers-Wells Corp, Warren, Pa
New York City, 149 Broadway **Barclay 7-8624**
STURTEVANT MILL CO, 8 Harrison sq, Boston, Mass **Talbot 5-4500**
Sullivan Machinery Co, Woodland av, Michigan City, Ind
Superior Tube Co, Norristown, Pa
Swenson Evaporator Co, 157 & Lathrop av, Harvey, Ill
Syntron Company, 421 Lexington av, Homer City, Pa

T

Taylor & Co, W A, 7300 York rd, Baltimore, Md
Taylor Forge & Pipe Wks, P O Box 485, Chicago, Ill
Taylor Instrument Co, 95 Ames st, Rochester, N Y
Tenney Engineering Inc, 26 av B, Newark, N J
Thermal Synd Ltd, The, 12 E 46 st, New York, N Y
Thermo Electric Co, Fair Lawn, N J
Thermo Electric Mfg Co, 463 W Locust st, Dubuque, Iowa
Thornton Co, F C, 6712 Union av, Cleveland, O
TITANIUM ALLOY MFG CO, 111 Broadway, N Y **Barclay 7-0943**
Titeflex Inc, 500 Frelinghuysen av, Newark, N J
Toledo Scale Co, 1036 Telegraph rd, Toledo, O
Tolhurst Centrifugals Div, E Moline, Ill
Torsion Balance Co, The, Clifton, N J
Tour, Sam, & Co, Inc, 65 Pine st, New York, N Y
Towmotor Co, 1226 E 152 st, Cleveland, O
Traylor Eng & Mfg Co, Allentown, Pa
Trent Inc, 4585 Wilde st, Phila, Pa
Triangle Package Machy Co, 6633-55 W Diversey av, Chicago, Ill
Tri-Clover Machine Co, Kenosha, Wis
Tri-Sure Prods Ltd, 30 Rockefeller Plaza, New York, N Y

U

Uehling Instrument Co, 468 Geety av, Paterson, N J
Uhrig Co, Joseph F, 4101-03 N 5 st, Philadelphia, Pa
Union Bag & Paper Corp, 10 Park pl, New York, N Y
Unson Special Machine Co, Chicago, Ill
UNION STANDARD EQUIPMENT CO, 318 Lafayette st, N Y C **Canal 6-5335**
United Filters Inc, 53 W 42 st, N Y
U S Bottlers Machine Co, 4015 N Rockwell st, Chicago, Ill
U S Gasket Co, 610 N 10 st, Camden, N J
U S Gauge, Div of Amer Machine & Metals Inc, Sellersville, Pa
U S Hoffman Mach Co, 219 Lamson st, Syracuse, N Y
U S Pipe & Foundry Co, Burlington, N J
U. S. Rubber Co, 1230 Sixth av, New York, N Y
U S Stoneware Co, The, 60 E 42 st, New York, N Y
Universal Engineering Corp, Cedar Rapids, Iowa

V

Vacuum Eng Div, Nat'l Research Corp, Cambridge, Mass
Valve Corp, Paul, 683 3 av, New York, N Y
Van Range Co, John, 529 E 5 st, Cincinnati, Ohio
Vierling Steel Wks, 53 W Jackson blvd, Chicago, Ill
Viking Pump Co, 4 & Huss st, Cedar Falls, Iowa
Viking Prods Sales Co, 2373 E Eight Mile rd, Hazel Pk, Mich
Virginia Barrel Co, Box 86, **Mariners Harbor Sta, S I, N Y**
Vitamoil Laboratory, Inc, Foot of Henderson st, Jersey City, N J
Vogt Machine Co Inc, Henry, Tenth & Ormsby sts, Louisville, Ky
Vol-U-Meter Co, P O Box 54, Buffalo, N Y
Vulcan Copper & Supply Co, The, 120 Sycamore st, Cincinnati, O
Vulcan Iron Wks, Wilkes-Barre, Pa

W

Wagner Electric Corp, 6400 Plymouth av, St Louis, Mo
Wall Colmonoy Corp, 19345 John R st, Detroit, Mich
Wallace & Tiernan Inc, 1 Main st, Belleville, N J
Warren Steam Pump Co, 16 Bridges av, Warren, Mass
Warren Webster & Co, 1730 Federal st, Camden, N J
Waterous Co, 80 E Fillmore st, St Paul, Minn
Waukesha Foundry Co, Waukesha, Wisc
Weatherly Fdry & Mfg Co, Weatherly, Pa
Webster Co, Warren, 1730 Federal st, Camden, N J
Welch Mfg Co, Wm M, 1515 Sedgwick st, Chicago, Ill
Welding Engineers, Inc, Norristown, Pa
Wellington, Sears Co, 65 North st, N Y
Wellman Engineering Co, 7000 Central av S E, Cleveland, O
Werthan Bag Corp, 1400 8th av, North Nashville, Tenn
Western Precipitation Corp, 1030 W Ninth st, Los Angeles, Calif
Westinghouse Electric Corp, Sturtevant Div, Hyde Park, Boston, Mass
Westinghouse Electric & Mfg Co, East Pittsburgh, Pa
Weston Electrical Instr Corp, 614 Frelinghuysen av, Newark, N J
WESTVACO CHEM DIV, Food Machry & Chem Corp, 405 Lexington av, New York, N Y **Murray Hill 9-4920**
Wheelco Instruments Co, 847 W Harrison st, Chicago, Ill
Wheeler Mfg Co, C H, 1743 Sedgely av, Philadelphia, Pa
Wheeling Corrugating Co, Wheeling, W Va
Whiting Corp, Harvey, Ill
WHITLOCK MFG CO, THE, 74 South st, Hartford, Conn **Hartford 2-4295**
Boston, Mass, 6 Beacon st **Capitol 7-8680**
Chicago, Ill, 37 W Van Buren st **Harrison 7-8944**
Detroit, Mich, 321 Stephenson Bldg Trinity 5-1254
New York, N Y, 149 Bway Cortlandt 7-8217
Philadelphia, Pa, 2206 Chestnut st **Rittenhouse 6-0862**
Whittington Pump & Eng Corp, 1126 Prospect st, Indianapolis, Ind
Wiegand Co, Edwin L, 7567 Thomas Blvd, Pittsburgh, Pa
Wiley Alloy Tube Co, 11 S La Salle st, Chicago, Ill
WILFLEY & SONS INC, A R, 605 Denham blvd, Denver, Colo
WILL CORP, THE, 39 Russell st, Rochester, N Y Monroe 0761
Williams Patent Crusher & Pulverizer Co, 813 Montgomery st, St Louis, Mo
Williams Sealing Corp, Div of Crown Cork & Seal Co Inc, Decatur, Ill
Willson Prods Inc, Reading, Pa
Wilson & Bennett Mfg Co, 6532 S Menard av, Chicago, Ill
Winslow Engineering Co, 4069 Hollis st, Oakland, Calif
Woolford Wood Tank Mfg Co, G, 8 st, Darby, Pa
Worthington Pump & Machinery Corp, Harrison, N J
Wright-Austin Co, 315 West Woodbridge st, Detroit, Mich
Wright Hoist Div, Amer Chain & Cable Co, Inc, York, Pa
Wurster & Sanger Inc, 5201 S Kenwood av, Chicago, Ill

Y

Yale & Towne Mfg Co, The, Philadelphia, Pa
YORK CO INC, OTTO H, 69 Glenwood Place, East Orange, N J **Orange 4-2000**

Z

Zallea Bros, Locust st, Wilmington, Del
Zaremba Co, 506 Crosby Bldg, Buffalo, N Y
Zeiss Inc, Carl, 485 Fifth av, New York, N Y
Zonolite Co, 1260 Field Bldg, Chicago, Ill
ZOPHAR MILLS INC, 116 26 st, B'klyn, N Y **South 8-6997**

Equipment and Containers

An Alphabetical list of apparatus, containers, equipment, laboratory supplies and packaging and labeling machinery, with a buyer's guide of manufacturers.

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

ABRASIVES

Butcher, L H, & Co, 3628 E Olympic, Los Angeles, Calif — Angelus 2-4101
Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330

Carborundum Co, Perth Amboy, N J
New England Quartz Co of N Y, N Y
Linde Air Prods Co, N Y

ABSORBERS

Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass — Waltham 5-6800
Corning Glass Wks, Corning, N Y — 372
Fisher Scientific Co, 717 Forbes St, Pittsburgh Pa — Express 1-1330
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100

Asphalt Emulsion Service Inc, N Y
Blaw-Knox Div, Pittsburgh, Pa
Conner, W B, Eng Corp, N Y
Cosmetic Mfg Supply Co, Chicago, Ill
Gen Amer Transportation Corp, Chicago, Ill
Hammond Drierite Co, Xenia, O
Peabody Eng Corp, N Y
R-S Prods Corp, Phila, Pa
Stacey Bros Gas Const Co, Cincinnati, O

ACCUMULATORS, HYDRAULIC

Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Gelb, R, & Sons, Inc, State Hway 29, Union, N J — Unionville 2-4900

Aldrich Pump Co, Allentown, Pa
Hydropress, Inc, N Y
Stein Equipt Co, N Y

ACID EGGS

Buffovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100

ADSORPTION APPARATUS

Buffovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100

Conner, W B, Eng Corp, N Y
Hammond Drierite Co, Xenia, O

AERATORS

Dorr Co, Barry Place, Stamford, Conn — Stamford 4-1151
Illinois Water Treatment Co, 858 Cedar St, Rockford, Ill — 2-8851
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

Elgin Softener Corp, Elgin, Ill

AFTERCOOLERS

Buffovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Croll Reynolds Eng Co, 17 John St, N Y — Cortlandt 7-9233
Davis Engineering Corp, 1064 E Grand St, Elizabeth, N J — Elizabeth 2-6780
Murray, D J, Mfg Co, 1002-1024 3 St, Wausau, Wisc — 4086
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820

Brown Fintube Co, Elyria, O
Joy Mfg Co, Pittsburgh, Pa
Natl Radiator Co, Johnstown, Pa
Ross Heater & Mfg Co, Buffalo, N Y



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AGITATORS

Aaron Equipment Co, 1347 S Ashland Av, Chicago, Ill — Chesapeake 3-5300
Allied Steel & Equipment Co, Chester, N J — Chester 141
Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
Blickman, S, Inc, 3100 Gregory Av, Weehawken, N J — Union 3-0300
Bonnot Co, 848 Market Av, N, Canton, O
Brill Equipment Co, 2401 3 Av, N Y — Cypress 2-5703
Buffovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Butcher, L H, & Co, 3628 E Olympic, Los Angeles, Calif — Angelus 2-4101

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Crystallizers	Kettles	Tanks, etc.
Dryers	Kilns	

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R. GELB and SONS, Inc.
UNION, N. J. UNionville 2-4900
EST. 1886

AGITATORS (cont'd)

Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Denver Equipment Co, 1400 17 St, Denver, Col — Cherry 4466
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100

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1923-C West North Ave. Chicago 22, Ill.

AGITATORS (cont'd)

Mixing Equipment Co, Inc, 139 Mt Read Blvd, Rochester, N Y
Murray, D J, Mfg Co, 1002-1024 3 St, Wausau, Wisc 4086
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa East Stroudsburg 820

Ace Equipt Co, Chicago, Ill
Caldwell, W E, Co, Inc, Louisville, Ky
Chem Eng Sales Co, Chicago, Ill
Consolidated Siphon Supply Co, N Y
Emerson-Schouring Tank Co, Indianapolis, Ind
Gen Amer Transportation Corp, Chicago, Ill
Industrial Engrs, Newark, N J
International Eng Inc, Dayton, O
Machinery & Equipt Corp, N Y
New England Tank & Tower Co, Everett, Mass
Standard Stoker Co Inc, York, Pa

AGITATORS, AIR

Mixing Equipment Co, Inc, 139 Mt Read Blvd, Rochester, N Y

Colloid Equipt Co, Inc, N Y

AGITATORS, LIQUID

Allied Steel & Equipment Co, Chester, N J Chester 141
Alsop Engineering Corp, 500 Center St, Milldale, Conn Southington 740
Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass Waltham 5-6800
Blickman, S, Inc, 3100 Gregory Av, Weehawken, N J Union 3-0300

AGITATORS, LIQUID (cont'd)

Consolidated Prods Co, Inc, 13-21 Park Row, N Y Barclay 7-0600
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill Calumet 5-8900
Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa Express 1-1330
Mixing Equipment Co, Inc, 139 Mt Read Blvd, Rochester, N Y
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa East Stroudsburg 820

Caldwell, W E, Co, Inc, Louisville, Ky
Colloid Equipt Co, Inc, N Y
International Eng Inc, Dayton, O
New England Tank & Tower Co, Everett, Mass

AGITATORS, MECHANICAL

Aaron Equipment Co, 1347 S Ashland Av, Chicago, Ill Chesapeake 3-5300
Allied Steel & Equipment Co, Chester, N J Chester 141
Alsop Engineering Corp, 500 Center St, Milldale, Conn Southington 740
Blickman, S, Inc, 3100 Gregory Av, Weehawken, N J Union 3-0300
Buffovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y Fillmore 2100
Denver Equipment Co, 1400 17 St, Denver, Col Cherry 4466
Dorr Co, Barry Place, Stamford, Conn Stamford 4-1151
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J Perth Amboy 4-5100
Link-Belt Co, 2045 W Hunting Park Av, Phila, Pa Radcliff 5-6000
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill Brunswick 8-5326
Mixing Equipment Co, Inc, 139 Mt Read Blvd, Rochester, N Y
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa East Stroudsburg 820
Murray, D J, Mfg Co, 1002-1024 3 St, Wausau, Wisc 4086

Bachrach, E W, & Co, Inc, Kansas City, Mo
Blaw-Knox Div, Pittsburgh, Pa
Eng Maintenance Corp, Chicago, Ill
New England Tank & Tower Co, Everett, Mass
Pfahler-Cleland Co, Galion, O

AGITATORS, PIPE LINE

Alsop Engineering Corp, 500 Center St, Milldale, Conn Southington 740
Mixing Equipment Co, Inc, 139 Mt Read Blvd, Rochester, N Y

Eng Maintenance Corp, Chicago, Ill
International Eng Inc, Dayton, O

AGITATORS, STEAM AND AIR JET

Eng Maintenance Corp, Chicago, Ill

AIR CONDITIONING EQUIPMENT

Aaron Equipment Co, 1347 S Ashland Av, Chicago, Ill Chesapeake 3-5300
Carey, Philip, Mfg Co, Cincinnati, O Valley 3000
Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O Kirby 5250
Murray, D J, Mfg Co, 1002-1024 3 St, Wausau, Wisc 4086

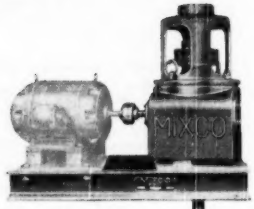
Carrier Corp, Syracuse, N Y
Chem Eng Sales Co, Chicago, Ill
Connor, W B, Eng Corp, N Y
Curtis Mfg Co, St Louis, Mo
Eng Maintenance Corp, Chicago, Ill
Frick Co, Waynesboro, Pa
Gen Electric Co, Schenectady, N Y
Tenney Eng Inc, Newark, N J

Lightnin Mixers
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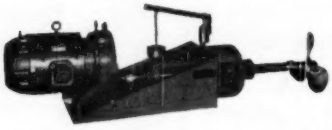
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Non-Advertisers Street Addresses—See Pages 613-618

AIR RECOVERY SYSTEMS

Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250
Pulverizing Machinery Co, Inc, Chatham Rd, Summit, N J — Summit 6-6360

Chem Eng Sales Co, Chicago, Ill
Connor, W B, Eng Corp, N Y
Pfaudler Co, Rochester, N Y

AIR SEPARATORS

Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250
Sturtevant Mill Co, 8 Harrison Sq, Boston, Mass — Talbot 5-6500

Combustion Eng-Superheater, Inc, Chicago, Ill
Dracco Corp, Cleveland, O
Logan Eng Co, Chicago, Ill
Machinery & Equipt Corp, N Y

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

ALARMS, LIQUID LEVEL

Bailey Meter Co, 1054 Ivanhoe Rd, Cleveland, O — Glenville 1-4600
Mercoid Corp, 4201 Belmont Av, Chicago, Ill — Pensacola 6-2100

Chem Eng Sales Co, Chicago, Ill
Colloid Equipt Co, Inc, N Y
Jerguson Gage & Valve, Somerville, Mass
R-S Prods Corp, Phila, Pa
Uehling Instrument Co, Paterson, N J

ALARMS, PRESSURE

Bailey Meter Co, 1054 Ivanhoe Rd, Cleveland, O — Glenville 1-4600
Mercoid Corp, 4201 Belmont Av, Chicago, Ill — Pensacola 6-2100

Eng Maintenance Corp, Chicago, Ill
Uehling Instrument Co, Paterson, N J

ALARMS, TEMPERATURE

Bailey Meter Co, 1054 Ivanhoe Rd, Cleveland, O — Glenville 1-4600
Mercoid Corp, 4201 Belmont Av, Chicago, Ill — Pensacola 6-2100

Chem Eng Sales Co, Chicago, Ill
Illinois Testing Lab, Inc, Chicago, Ill
Sarco Co, Inc, N Y

ALLOYS

Belmont Smelting & Refg Wks Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161
Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

Armco Steel Corp, Middletown, O
Burgess-Parr Co, Freeport, Ill
Carpenter Steel Co, Reading, Pa

ALLOYS, ABRASION RESISTING

Haynes Stellite Div, Union Carbide & Carbon Corp, Kokomo, Ind
Republic Steel Corp, Republic Bldg, Cleveland, O — Prospect 1-1400

Amer Manganese Steel Div, Chicago Hghts, Ill
Burgess-Parr Co, Freeport, Ill
Carnegie-Ill Steel Corp, Pittsburgh, Pa
Wall Colmonoy Corp, Detroit, Mich

ALLOYS, ALUMINUM

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

Colonial Alloys Co, Phila, Pa
Revere Copper & Brass Inc, N Y

ALLOYS, BERYLLIUM

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

ALLOYS, BISMUTH

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

Republic Metals Co, Bklyn, N Y

ALLOYS, CERIUM

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

ALLOYS, CHROMIUM

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544
Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

Armco Steel Corp, Middletown, O
Burgess-Parr Co, Freeport, Ill

ALLOYS, COBALT

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

Burgess-Parr Co, Freeport, Ill

ALLOYS, COPPER

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

Republic Metals Co, Bklyn, N Y
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ALLOYS, FUSIBLE

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

ALLOYS, HEAT RESISTING

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544
Haynes Stellite Div, Union Carbide & Carbon Corp, Kokomo, Ind

ALLOYS, HEAT RESISTING (cont'd)

Republic Steel Corp, Republic Bldg, Cleveland, O — Prospect 1-1400

Armco Steel Corp, Middletown, O
Burgess-Parr Co, Freeport, Ill
Eng Maintenance Corp, Chicago, Ill
Hoskins Mfg Co, Detroit, Mich
Lebanon Steel Fdry, Lebanon, Pa
Pioneer Alloy Prods Co Inc, Cleveland, O
Wall Colmonoy Corp, Detroit, Mich

ALLOYS, IMPACT RESISTING

Haynes Stellite Div, Union Carbide & Carbon Corp, Kokomo, Ind
Republic Steel Corp, Republic Bldg, Cleveland, O — Prospect 1-1400

Amer Manganese Steel Div, Chicago Hghts, Ill
Eng Maintenance Corp, Chicago, Ill
Wall Colmonoy Corp, Detroit, Mich

ALLOYS, LEAD

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

Alpha Metals, Inc, Bklyn, N Y
Eagle-Picher Co, Cincinnati, O
Republic Metals Co, Bklyn, N Y

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Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Dow Chem Co, Midland, Mich — Midland 500

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Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

ALLOYS, MOLYBDENUM

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

Armco Steel Corp, Middletown, O

ALLOYS, NICKEL

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544
Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161

Armco Steel Corp, Middletown, O
Burgess-Parr Co, Freeport, Ill

ALLOYS, NICKEL-CHROMIUM

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544
Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161
Republic Steel Corp, Republic Bldg, Cleveland, O — Prospect 1-1400

Armco Steel Corp, Middletown, O
Carpenter Steel Co, Reading, Pa
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Armco Steel Corp, Middletown, O
Carnegie-Ill Steel Corp, Pittsburgh, Pa
Carpenter Steel Co, Reading, Pa
Lebanon Steel Fdry, Lebanon, Pa
Pioneer Alloy Prods Co Inc, Cleveland, O

ALLOYS, TIN

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

Alpha Metals, Inc, Bklyn, N Y
Eagle-Picher Co, Cincinnati, O
Republic Metals Co, Bklyn, N Y

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Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Electro Metallurgical Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000
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Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
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Allied Steel & Equipment Co, Chester, N J — Chester 141
Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass — Waltham 5-6800
Blickman, S, Inc, 3100 Gregory Av, Weehawken, N J — Union 3-0300
Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
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Whitlock Mfg Co, 74 South St, Hartford, Conn — Hartford 2-4295

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Scientific Glass Apparatus Co, Inc, Bloomfield, N J — Bloomfield 2-7200
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761
Chem Eng Sales Co, Chicago, Ill

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Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Scientific Glass Apparatus Co, Inc, Bloomfield, N J — Bloomfield 2-7200
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

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Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Link-Belt Co, 2410 W 18 St, Chicago, Ill — Canal 6-2400
Eagle-Picher Co, Cincinnati, O
Republic Metals Co, Bklyn, N Y

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Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Dicalite Div, Los Angeles, Calif
St Regis Paper Co, N Y

BAG TIES, WIRE

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BAGS, BURLAP

Fulton Bag & Cotton Mills, P O Box 1726, Atlanta, Ga

BAGS, CANVAS

Stanley, Wm W, Co, Inc, 401 Bway, N Y — Canal 6-5420

BAGS, FILTER (Cotton or Wool)

Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Fulton Bag & Cotton Mills, P O Box 1726, Atlanta, Ga
Industrial Filter & Pump Mfg Co, 1621 W Carroll Av, Chicago, Ill — Seeley 3-3632
Johnson & Johnson, 4949 W 65 St, Chicago, Ill — Portsmouth 7-0800

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Shriver, T. & Co, Inc, 874 Hamilton St, Harrison, N J — Harrison 6-2140
Stanley, Wm W. Co, Inc, 401 Bway, N Y — Canal 6-5120

Best, Edward, & Co, Boston, Mass
Independent Filter Press, Bklyn, N Y
Northern Blower Co, Cleveland, O
Sly, W W, Mfg Co, Cleveland, O

BAGS, FILTER (Glass)

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Industrial Filter & Pump Mfg Co, 1621 W Carroll Av, Chicago, Ill — Seeley 3-3632
National Filter Media Corp, 1717 Dixwell Av, New Haven, Conn — New Haven 2-5566
Stanley, Wm W, Co, Inc, 401 Bway, N Y — Canal 6-5120

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Fulton Bag & Cotton Mills, P O Box 1726, Atlanta, Ga
Kraft Bag Corp, 630 5 Av, N Y — Circle 7-2860
Raymond Bag Co, Enoch Drive, Middletown, O — 2-5461

Hammond Bag & Paper Co, Wellsburg, W Va
St Regis Paper Co, N Y

BAGS, PAPER

Raymond Bag Co, Enoch Drive, Middletown, O — 2-5461

Gaylord Container Corp, St Louis, Mo
Hammond Bag & Paper Co, Wellsburg, W Va
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BAGS, POLYETHYLENE-LINED

Raymond Bag Co, Enoch Drive, Middletown, O — 2-5461

Plax Corp, Hartford, Conn
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Kraft Bag Corp, 630 5 Av, N Y — Circle 7-2860
Raymond Bag Co, Enoch Drive, Middletown, O — 2-5461

Hammond Bag & Paper Co, Wellsburg, W Va
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BAGS, WATERPROOF

Fulton Bag & Cotton Mills, P O Box 1726, Atlanta, Ga
Kraft Bag Corp, 630 5 Av, N Y — Circle 7-2860
Raymond Bag Co, Enoch Drive, Middletown, O — 2-5461

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Denver Equipment Co, 1400 17 St, Denver, Col — Cherry 4466
Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Howe & French Inc, 99 Broad St, Boston, Mass — Hancock 5910
Scientific Glass Apparatus Co, Inc, Bloomfield, N J — Bloomfield 2-7200
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

Christian Becker Inc, Clifton, N J
Colloid Equipt Co, Inc, N Y
Dezurik Shower Co, Sartell, Minn
Welch, Wm M, Mfg Co, Chicago, Ill

BALL MILL LININGS

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Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300
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Abbe, Paul O, Inc, Little Falls, N J
Amer Manganese Steel Div, Chicago Hghts, Ill
International Eng Inc, Dayton, O
Lynchburg Foundry Co, Lynchburg, Va

BALLS, FOAT

Harris, Arthur, & Co, Chicago, Ill
Kaye & MacDonald, Inc, West Orange, N J
Schnitzer Alloy Prods Co, Elizabeth, N J

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Buckeye Cooperage Co, Cleveland, O
Virginia Barrel Co, Staten Is, N Y
Inland Steel Container Co, Chicago, Ill

BARRELS, ALUMINUM

Pressed Steel Tank Co, 1499 South 66 St, Milwaukee, Wisc — Greenfield 6-0500
Buckeye Cooperage Co, Cleveland, O

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Continental Can Co, Inc, 100 E 42 St, N Y — Murray Hill 3-4100
Continental Can Co, Inc, Paper Converting Div, 965 S Glenn St, Van Wert, O — 2611
Grief Bros Cooperage Corp, Fibre Drum Div, 137-147 41 St, Bklyn, N Y Sterling 8-2320
Buckeye Cooperage Co, Cleveland, O
Master Package Corp, Owen, Wis
Emery-Carpenter Container Co, Cincinnati, O
Spaulding Fibre Co, Inc, Tonawanda, N Y
Virginia Barrel Co, Staten Is, N Y
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Grief Bros Cooperage Corp, Fibre Drum Div, 137-147 41 St, Bklyn, N Y Sterling 8-2320
Niles Steel Prods Div, Republic Steel Corp, 465 Walnut St, Niles, O — Niles 2-2521
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Republic Steel Corp, Republic Bldg, Cleveland, O — Prospect 1-1400
Buckeye Cooperage Co, Cleveland, O
Ohio Corrugating Co, Warren, O
Inland Steel Container Co, Chicago, Ill
Virginia Barrel Co, Staten Is, N Y

BARRELS, WOOD

Grief Bros Cooperage Corp, Fibre Drum Div, 137-147 41 St, Bklyn, N Y Sterling 8-2320
Buckeye Cooperage Co, Cleveland, O
Virginia Barrel Co, Staten Is, N Y

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Link-Belt Co, 300 W Pershing Rd, Chicago Ill — Boulevard 8-8100

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Michigan Wire Cloth Co, 2055 Howard St, Detroit, Mich — Tashmoo 5-1124
Korb-Pettit Wire Fabrics & Iron Wks, Inc, Phila, Pa
Munning & Munning, Inc, Newark, N J

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Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335

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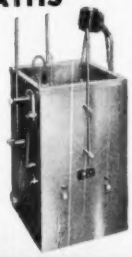
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Scientific Glass Apparatus Co, Inc, Bloomfield, N J — Bloomfield 2-7200
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761
Amer Instrument Co, Inc, Silver Springs, Md
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Precision Scientific Co, Chicago, Ill
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Tenney Eng Inc, Newark, N J

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BEARINGS, THRUST

Link-Belt Co, 519 N Holmes Av, Indianapolis, Ind — Market 9445

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Cambridge Wire Cloth Co, Cambridge, Md — Raybestos-Manhattan, Inc, Passaic, N J
Farquhar, A B, Co, York, Pa — Republic Rubber Div, Youngstown, O
Hewitt Rubber Div, Buffalo, N Y — U S Rubber Co, N Y

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Goodall Rubber Co, Whitehead Rd, Trenton, N J — Trenton 2-6175
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Goodall Rubber Co, Whitehead Rd, Trenton, N J — Trenton 2-6175
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Raybestos-Manhattan, Inc, Passaic, N J

BENDERS, TUBE

Parker Appliance Co, Cleveland, O

BINS

Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250
Littleford Bros, Inc, Cincinnati, O — Standard Stoker Co Inc, York, Pa
Nicholson Co, N Y

BLAST CLEANING EQUIPMENT

Sly, W W, Mfg Co, Cleveland, O

BLENDERS

Abbe Eng Co, 44 Church St, N Y — Cortlandt 7-1115
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Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Gelb, R, & Sons, Inc, State Hway 29, Union, N J — Unionville 2-4900
Gump, B F, Co, 1347 S Cicero Av, Chicago, Ill — Bishop 2-3050
International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820
Pulverizing Machinery Co, Inc, Chatham Rd, Summit, N J — Summit 6-6360
Sturtevant Mill Co, 8 Harrison Sq, Boston, Mass — Talbot 5-6500
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BLOCKS, PILLOW, BALL & ROLLER

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Chem Eng Sales Co, Chicago, Ill — Northern Blower Co, Cleveland, O
De Laval Steam Turbine Co, Trenton, N J — Roots-Connersville Blower Corp, Connersville, Ind
Eclipse Fuel Eng Co, Rockford, Ill — Spencer Turbine Co, Hartford, Conn
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Hamilton Mfg Co, Two Rivers, Wis — Kewaunee Mfg Co, Adrian, Mich

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Ideal Commutator Dresser Co, Sycamore, Ill

BLOWERS, TURBINE

De Laval Steam Turbine Co, Trenton, N J — Spencer Turbine Co, Hartford, Conn
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Dorr Co, Barry Place, Stamford, Conn — Stamford 4-1151
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Milton Roy Co, 1382 E Mermaid Lane, Phila, Pa — Wissahickon 7-8000
Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn — Norwalk 6-3351
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820
Whitlock Mfg Co, 74 South St, Hartford, Conn — Hartford 2-4295
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Cochrane Corp, Phila, Pa — Eclipse Fuel Eng Co, Rockford, Ill

BOILER WATER CONTROL EQUIPMENT—see Equipment, Boiler Water Control

BOILERS, FIRE TUBE

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Cyclotherm Corp, Oswego, N Y — Edge Moor Iron Co, Edge Moor, Del
Eclipse Fuel Eng Co, Rockford, Ill

BOILERS, HIGH PRESSURE

Aaron Equipment Co, 1347 S Ashland Av, Chicago, Ill — Chesapeake 3-5300
Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300
Cyclotherm Corp, Oswego, N Y — Edge Moor Iron Co, Edge Moor, Del
Eclipse Fuel Eng Co, Rockford, Ill

BOILERS, WASTE HEAT

Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300
Davis Engineering Corp, 1064 E Grand St, Elizabeth, N J — Elizabeth 2-6780
Edge Moor Iron Co, Edge Moor, Del — Struthers-Wells Corp, Warren, Pa

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Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300
Edge Moor Iron Co, Edge Moor, Del — Vogt, Henry, Mach Co Inc, Louisville, Ky

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Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

Alloy Prods Corp, Waukesha, Wis
Parr Instrument Co, Moline, Ill

BOOSTERS, PRESSURE

Beach-Russ Co, 44 Church St, N Y — Cortlandt 7-1115

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International Equipt, Boston, Mass

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Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
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Anchor Hocking Glass Corp, Lancaster, O
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Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Knight, Maurice A, 444 Kelly Av, Akron, O — Parkway 1277

BOTTLES, WOULFF

Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Scientific Glass Apparatus Co, Inc, Bloomfield, N J — Bloomfield 2-7200

BRAKES, MAGNETIC

Stearns Magnetic Mfg Co, Milwaukee, Wis

BRASS, INGOTS SHAPES

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900

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Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

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Pennsylvania Crusher Co, Phila, Pa

BREATHERS, STORAGE TANK

Hammond Dioxite Co, Xenia, O

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Knight, Maurice A, 444 Kelly Av, Akron, O — Parkway 1277
National Carbon Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

Abbe, Paul O, Inc, Little Falls, N J
Belden Brick Co, Canton, O
Custodis Construction Inc, N Y

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Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

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Machinery & Equipt Corp, N Y
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National Carbon Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

Speer Carbon Co, St Marys, Pa

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National Carbon Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

Speer Carbon Co, St Marys, Pa

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Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250

Industrial Prods Co, Phila, Pa

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Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
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Gelb, R, & Sons, Inc, State Hway 29, Union, N J — Unionville 2-4900
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Link-Belt Co, 2410 W 18 St, Chicago, Ill — Canal 6-2400

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Brady Conveyors Corp, Chicago, Ill
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Anderson Stolz Corp, Kansas City, Mo
Brady Conveyors Corp, Chicago, Ill

BUNG BUSHING (Steel Drums)

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Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300

Peabody Eng Corp, N Y

BURNERS, GAS (Industrial)

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Rockwell, W S, Co, Fairfield, Conn

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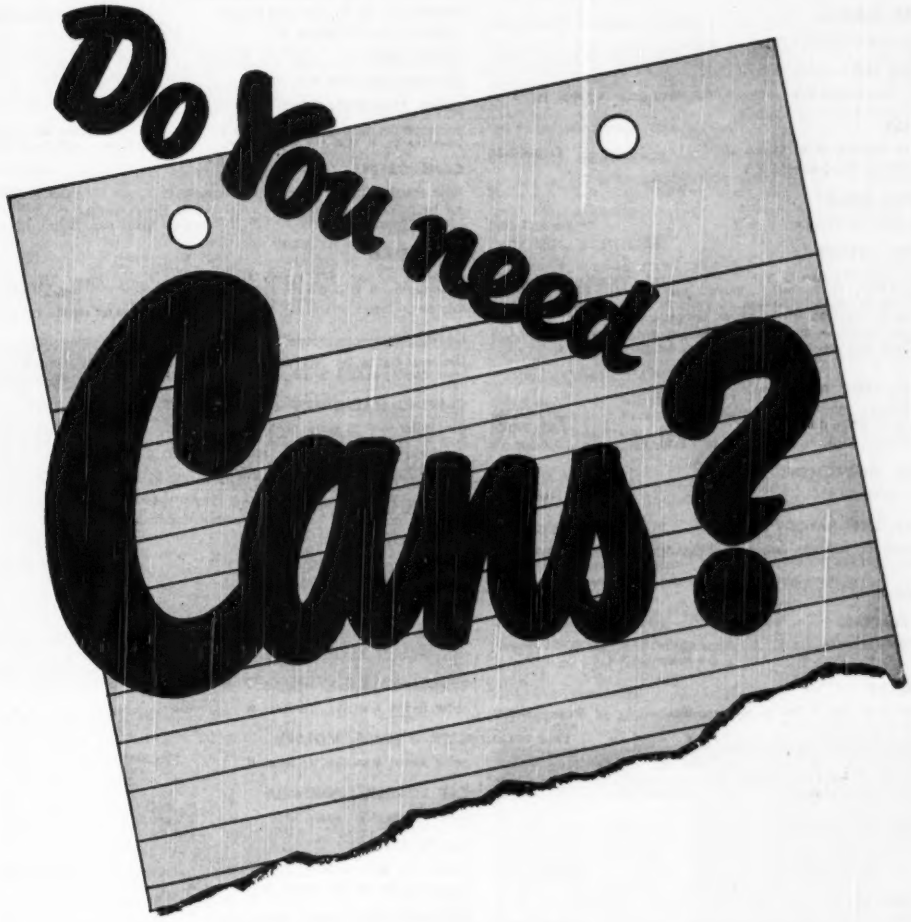
Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Scientific Glass Apparatus Co, Inc, Bloomfield, N J — Bloomfield 2-7200
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

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Mahr Mfg Co, Minneapolis, Minn
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Spaulding Fibre Co, Inc, Tonawanda, N Y

BUSHINGS, DRUM

Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300

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Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass — Waltham 5-6800
Electric Hotpack Co, Inc, 5035 Cottman Av, Phila, Pa — Devonshire 3-1700
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Hamilton Mfg Co, Two Rivers, Wis
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Tenney Eng Inc, Newark, N J

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Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
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Industrial Prods Co, Phila, Pa
Mine Safety Appliances Co, Pittsburg, Pa

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Swenson Evaporator Co, Harvey, Ill

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Dorr Co, Barry Place, Stamford, Conn — Stamford 4-1151

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Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

Parr Instrument Co, Moline, Ill
Welch, Wm M, Mfg Co, Chicago, Ill

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Crown Can Co, H St & Erie Av, Phila, Pa — Jefferson 3-5000
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Gump, B F, Co, 1347 S Cicero Av, Chicago, Ill — Bishop 2-3050
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Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326

Machinery & Equipt Corp, N Y

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Machinery & Equipt Corp, N Y

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Continental Can Co, Inc, 100 E 42 St, N Y — Murray Hill 3-4100

Ritchie, W C, & Co, Chicago, Ill
Spaulding Fibre Co, Inc, Tonawanda, N Y

CANS, FIBRE & METAL COMPOSITE

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Canister Co, Inc, Phillipsburg, N J

CANS, LEAD

Alpha Metals, Inc, Bklyn, N Y

CANS, LITHOGRAPHED

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Crown Can Co, H St & Erie Av, Phila, Pa — Jefferson 3-5000

CANS, SAFETY

Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330

Gen Detroit Corp, Detroit, Mich
Industrial Prods Co, Phila, Pa
Justrite Mfg Co, Chicago, Ill
Productive Equipt Corp, Chicago, Ill

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Crown Can Co, H St & Erie Av, Phila, Pa — Jefferson 3-5000

Falstrom Co, Passaic, N J
Inland Steel Container Co, Chicago, Ill

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Continental Can Co, Inc, 100 E 42 St, N Y — Murray Hill 3-4100
Crown Can Co, H St & Erie Av, Phila, Pa — Jefferson 3-5000

CAPPING MACHINERY

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326

Anchor Hocking Glass Corp, Lancaster, O
Pneumatic Scale Corp, Ltd, Quincy, Mass
Perry Equipt Corp, Phila, Pa

CAPS, BOTTLE

Continental Can Co, Inc, 100 E 42 St, N Y — Murray Hill 3-4100

Anchor Hocking Glass Corp, Lancaster, O

CAPS AND SEALS, BOTTLE

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170

Anchor Hocking Glass Corp, Lancaster, O

CAPS AND SEALS, METAL

Anchor Hocking Glass Corp, Lancaster, O

CAPS & SEALS, MOLDED

Anchor Hocking Glass Corp, Lancaster, O

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Stephens-Adamson Mfg Co, Aurora, Ill

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National Carbon Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

Dixon, Joseph, Crucible Co, Jersey City, N J
Speer Carbon Co, St Marys, Pa

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Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
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Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

Industrial Prods Co, Phila, Pa
Munning & Munning, Inc, Newark, N J
Revolvator Co, North Bergen, N J
Vol-U-Meter Co, Buffalo, N Y

CARBOYS, GLASS

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Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330

Natl Box & Lumber Co, Newark, N J
Owens-Illinois Glass Co, Toledo, O

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Knight, Maurice A, 444 Kelly Av, Akron, O — Parkway 1277

CARTON HANDLING SYSTEMS

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Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326

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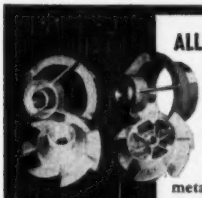
Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300
Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Buffovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161
Link-Belt Co, 180 W Duncannon Av Phila, Pa — Michigan 4-0450
Murray, D J, Mfg Co, 1002-1024 3 St, Wausau, Wisc — 4086
Shriver, T, & Co, Inc, 874 Hamilton St, Harrison, N J — Harrison 6-2140

Burgess-Parr Co, Freeport, Ill
Lynchburg Fdry Co, Lynchburg, Va
Waukesha Fdry Co, Waukesha, Wis

CASTINGS, ALLOY

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544
Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300
Buffovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161
Haynes Stellite Div, Union Carbide & Carbon Corp, Kokomo, Ind
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Shriver, T, & Co, Inc, 874 Hamilton St, Harrison, N J — Harrison 6-2140

Burgess-Parr Co, Freeport, Ill
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Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300
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Wall Colmonoy Corp, Detroit, Mich
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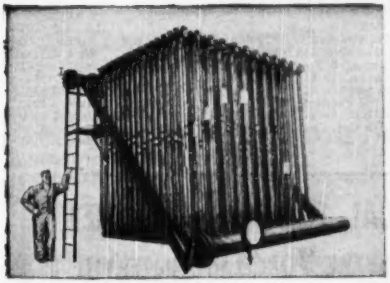
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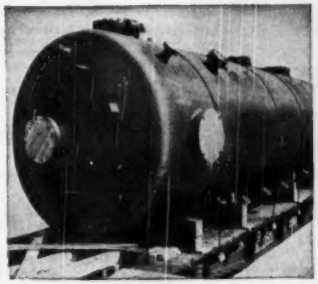
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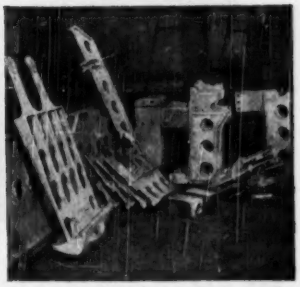
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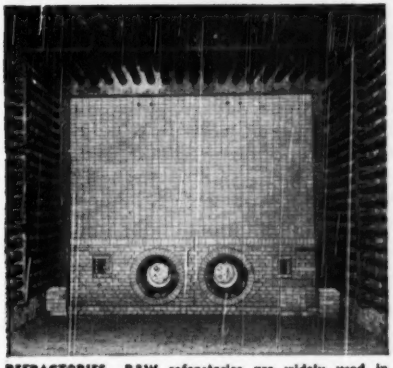
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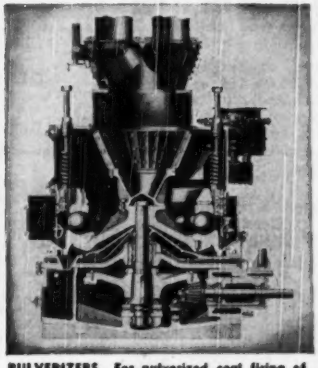
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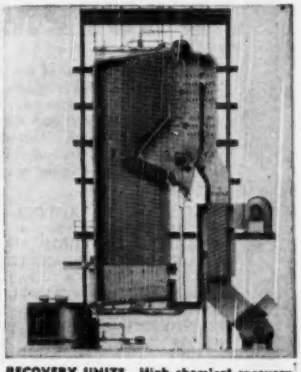
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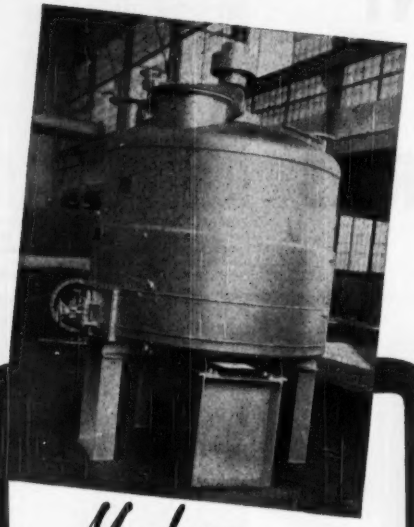
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Lynchburg Fdry Co, Lynchburg, Va

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Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Murray, D J, Mfg Co, 1002-1024 3 St, Wausau, Wisc — 4086
Pulverizing Machinery Co, Inc, Chatham Rd, Summit, N J — Summit 6-6360
Builders-Providence, Inc, Providence, R I

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Hanovia Chem & Mfg Co, Newark, N J
Wallace & Tiernan Inc, Belleville, N J

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Lamotte Chem Prod, Baltimore, Md
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Taylor, W A, & Co, Baltimore, Md
Wallace & Tiernan Inc, Belleville, N J

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Hardinge Co, Inc, York, Pa

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Cochrane Corp, Phila, Pa

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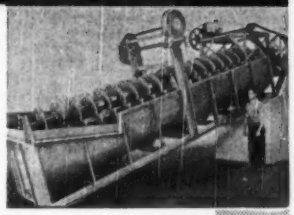
Dorr Co, Barry Place, Stamford, Conn — Stamford 4-1151
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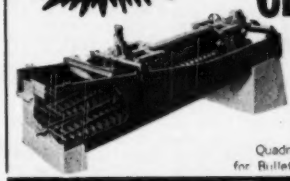
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Koch Eng Co, Inc, Wichita, Kansas
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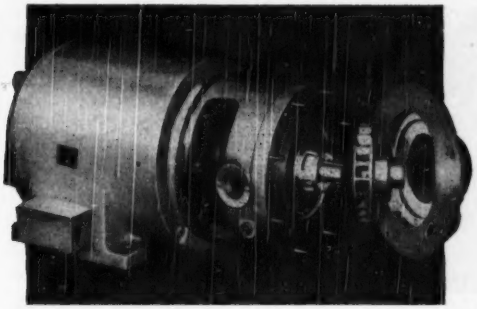
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Davis Engineering Corp, 1064 E Grand St, Elizabeth, N J — Elizabeth 2-6780
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100
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Anchor Hocking Glass Corp, Lancaster, O — Owens-Illinois Glass Co, Toledo, O

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Pressed Steel Tank Co, 1499 South 66 St, Milwaukee, Wisc — Greenfield 6-0500

Falstrom Co, Passaic, N J — Sheffield Tube Corp, New London, Conn
Geuder Paeshke & Frey Co, Milwaukee, Wis — Virginia Barrel Co, Staten Is, N Y

CONTAINERS, PAPER

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Gaylord Container Corp, St Louis, Mo — Virginia Barrel Co, Staten Is, N Y
Gulf State Paper Corp, Tuscaloosa, Ala

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Gen Electric Co, Schenectady, N Y — Minneapolis Honeywell Regulator Co,
Lumenite Electronic Co, Chicago, Ill — Phila, Pa

CONTROLS, FEED WATER

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Mercoid Corp, 4201 Belmont Av, Chicago, Ill — Pensacola 6-2100

Lumenite Electronic Co, Chicago, Ill

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Gen Controls Co, 801 Allen Av, Glendale, Calif

Builders-Providence, Inc, Providence, R I — Schutte & Koerting Co, Phila, Pa

CONTROLS, FURNACE

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Gen Controls Co, 801 Allen Av, Glendale, Calif
Mercoid Corp, 4201 Belmont Av, Chicago, Ill — Pensacola 6-2100

Illinois Testing Lab, Inc, Chicago, Ill — Lumenite Electronic Co, Chicago, Ill

CONTROLS, HUMIDITY

Buffovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Gen Controls Co, 801 Allen Av, Glendale, Calif

Abbeon Supply Co, Woodside, N Y

CONTROLS, HYDRAULIC

Hydraulic Press Mfg Co, Mt Gilead, O

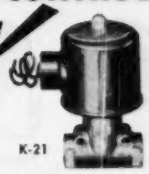
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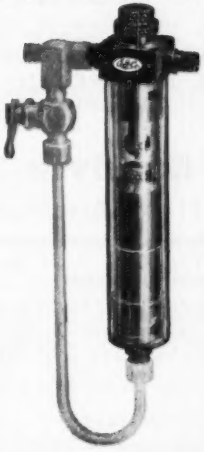
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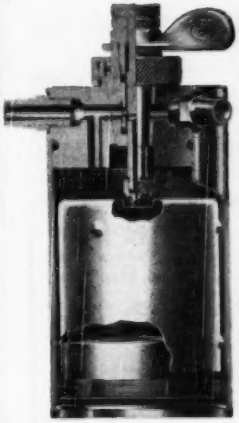
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Natl Research Corp, Eng Div, Cambridge, Mass
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Whitlock Mfg Co, 74 South St, Hartford, Conn — Hartford 2-4295

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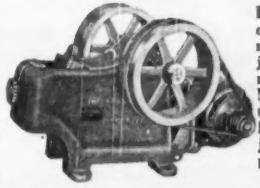
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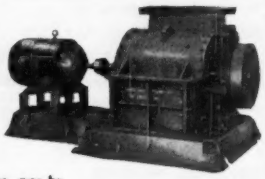
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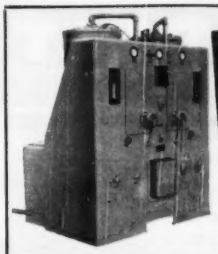
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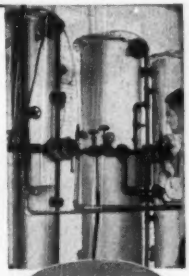
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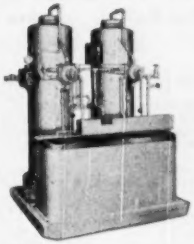
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Connor, W B, Eng Corp, N Y

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Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
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Link-Belt Co, 2045 W Hunting Park Av, Phila, Pa — Radcliff 5-6000

Blaw-Knox Div, Pittsburgh, Pa — Downingtown Iron Wks, Downingtown, Pa

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DISCS, CORK (Bottle Cap)

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Gen Amer Transportation Corp, Chicago, Ill

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Allied Steel & Equipment Co, Chester, N J — Chester 141
Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass — Waltham 5-6800
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Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
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Davis Engineering Corp, 1064 E Grand St, Elizabeth, N J — Elizabeth 2-6780
Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
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Illinois Water Treatment Co, 858 Cedar St, Rockford, Ill — 2-8851
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DRILLS

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Greif Bros Cooperage Corp, Fibre Drum Div, 137-147 41 St, Bklyn, N Y — Sterling 8-2320

Emery-Carpenter Container Co, Cincinnati, O — Master Package Corp, Owen, Wis
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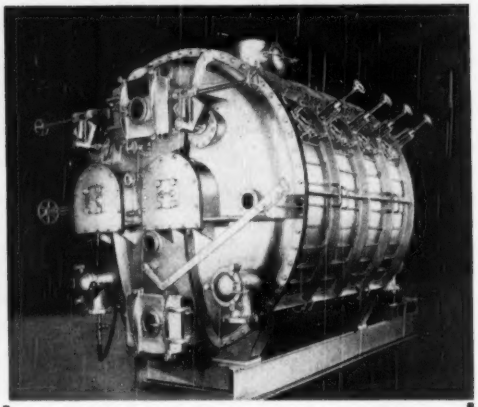
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Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326
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Natl Research Corp, Eng Div, Cambridge, Mass — Stein Equipt Co, N Y
Stokes Machine Co, Phila, Pa

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Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
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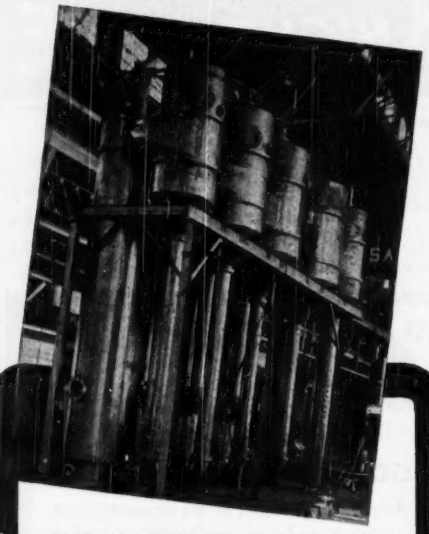
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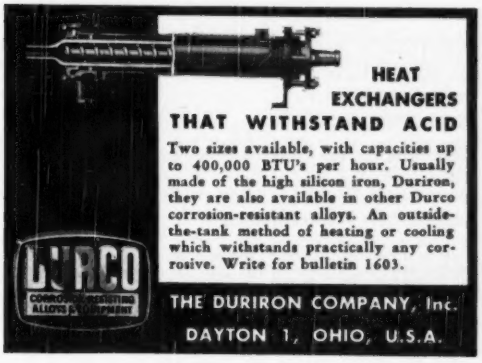
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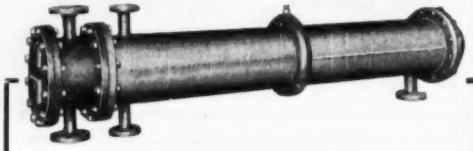
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Cherry-Burrell Corp, Chicago, Ill
Cochrane Corp, Phila, Pa
Emerson-Scheuring Tank Co, Indianapolis, Ind
Enzinger Union Corp, Angola, N Y
Gen Amer Transportation Corp, Chicago, Ill
Griscom-Russell Co, N Y
Harris, Arthur, & Co, Chicago, Ill
Heil Process Equipt Corp, Cleveland, O
Joy Mfg Co, Pittsburgh, Pa
Kellogg, M W, Co, N Y
Lummus Co, N Y
Natl Radiator Co, Johnstown, Pa
Pfaudler Co, Rochester, N Y
Ross Heater & Mfg Co, Buffalo, N Y
Schutte & Koerting Co, Phila, Pa
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Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn Norwalk 6-3351
Elliott Co, Jeannette, Pa
Roots-Connersville Blower Corp, Connersville, Ind

EXHAUSTERS, STONEWARE

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Babcock & Wilcox Co, 85 Liberty St, N Y Barclay 7-0300
Hydropress, Inc, N Y

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Goodall Rubber Co, Whitehead Rd, Trenton, N J Trenton 2-6175
Johns-Manville, 22 E 40 St, N Y Lexington 2-7600
Amer District Steam Co, N Tonawanda, N Y
Chicago Metal Hose Corp, Maywood, Ill
Zallea Bros, Wilmington, Del

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Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa Express 1-1330
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C-O-Two Fire Equipt Co, Newark, N J
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Justrite Mfg Co, Chicago, Ill
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Natl Foam Systems, Inc, West Chester, Pa
Plant Equipt Corp, Buffalo, N Y
Pyrene Mfg Co, Newark, N J
Randolph Labs, Inc, Chicago, Ill

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Amer Roland Corp, 16 Hudson St, N Y Digby 9-0170
Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass Waltham 5-6800

EXTRACTORS, JACKETED (cont'd)

Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y Fillmore 2100
Consolidated Prods Co, Inc, 13-21 Park Row, N Y Barclay 7-0600
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa East Stroudsburg 820

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Scientific Glass Apparatus Co, Inc, Bloomfield, N J Bloomfield 2-7200
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York, Otto H, Co, Inc, 69 Glenwood Pl, E Orange, N J Orange 4-2000

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EXTRACTORS, MIST

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Blaw-Knox Div, Pittsburgh, Pa

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Consolidated Prods Co, Inc, 13-21 Park Row, N Y Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y Worth 4-5900
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa East Stroudsburg 820

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Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass Waltham 5-6800
Babcock & Wilcox Co, 85 Liberty St, N Y Barclay 7-0300
Brill Equipment Co, 2401 3 Av, N Y Cypress 2-5703
Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y Fillmore 2100
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill Calumet 5-8900
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Cherry-Burrell Corp, Chicago, Ill
Consolidated Siphon Supply Co, N Y
Downingtown Iron Wks, Downingtown, Pa
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Glascote Prods Inc, Cleveland, O
Goslin-Birmingham Mfg Co, Birmingham, Ala
Industrial Engrs, Newark, N J
Lee Metal Prods Co, Philipsburg, Pa
Littleford Bros, Inc, Cincinnati, O
Nooter Corp, St Louis, Mo
Pfahler-Cleland Co, Galion, O
Pfaudler Co, Rochester, N Y

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Aaron Equipment Co, 1347 S Ashland Av, Chicago, Ill Chesapeake 3-5300
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Keppers Co, Inc, Koppers Bldg, Pittsburgh, Pa, Atlantic 1-6240
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O 3-6461
Amer Machine & Metals Inc, E Moline, Ill
Eagle-Picher Co, Cincinnati, O

FANS, EXHAUST

Aaron Equipment Co, 1347 S Ashland Av, Chicago, Ill Chesapeake 3-5300
Carey, Philip, Mfg Co, Cincinnati, O Valley 3000

Non-Advertisers Street Addresses—See Pages 613-618

FANS, EXHAUST (cont'd)

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Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O Kirby 5250
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O 3-6461

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Binks Mfg Co, Chicago, Ill
International Eng Inc, Dayton, O
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Hamilton Mfg Co, Two Rivers, Wis
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Hamilton Mfg Co, Two Rivers, Wis

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Merrick Scale Mfg Co, Passaic, N J
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- Low Cost Operation



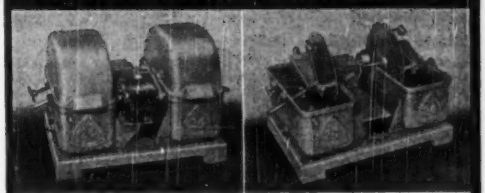
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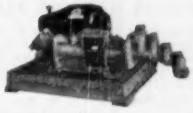
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Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
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Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335

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Pneumatic Scale Corp, Ltd, Quincy, Mass
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Gump, B F, Co, 1347 S Cicero Av, Chicago, Ill — Bishop 2-3050
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335

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Triangle Package Machy Co, Chicago, Ill

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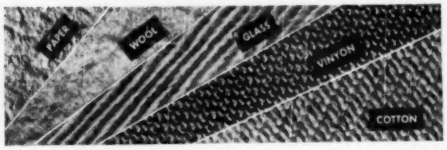
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T. SHRIVER & COMPANY, Inc.
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Stanley, Wm W, Co, Inc, 401 Bway, N Y — Canal 6-5420

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Filtration Engs Inc, Newark, N J
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(Trade Mark of Johnson & Johnson)

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A series of non-woven filter materials made from selected cotton. Types, grades, sizes are available for indicated type of sediment removal. Used successfully and economically by rayon manufacturers, oil, paint and varnish producers, beverage and fruit-juice processors, syrup makers, for air-conditioning equipment, etc. The services of our technical staff are available in developing suitable filter cotton for special needs.

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Jacoby-Tarbox Corp, 810 Nepperhan Av, Yonkers, N Y — Yonkers 5-8400
Johnson & Johnson, 4949 W 65 St, Chicago, Ill — Portsmouth 7-0800
National Filter Media Corp, 1717 Dixwell Av, New Haven, Conn — New Haven 2-5566
Shriver, T, & Co, Inc, 874 Hamilton St, Harrison, N J — Harrison 6-2140
Stanley, Wm W, Co, Inc, 401 Bway, N Y — Canal 6-5420

Best, Edward, & Co, Boston, Mass
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Sly, W W, Mfg Co, Cleveland, O
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Alkali Resistant · Acidproof · Heat Resistant

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Multi Metal Wire Cloth Co, Inc, N Y
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Independent Filter Press, Bklyn, N Y
Sperry, D R, & Co, Batavia, Ill

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Sperry, D R, & Co, Batavia, Ill

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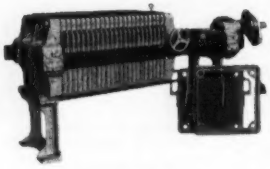
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First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
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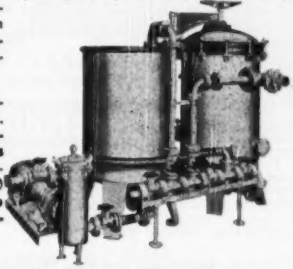
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Cellulo Co, Sandusky, O — 2030
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
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Gen Amer Transportation Corp, Chicago, Ill — Swenson Evaporator Co, Harvey, Ill

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Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
Cellulo Co, Sandusky, O — 2030
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Denver Equipment Co, 1400 17 St, Denver, Col — Cherry 4466
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Gen Amer Transportation Corp, Chicago, Ill — Morse Bros Machinery Co, Denver, Colo

FILTERS, DUST

Pulverizing Machinery Co, Inc, Chatham Rd, Summit, N J — Summit 6-6360
Stanley, Wm W, Co, Inc, 401 Bway, N Y — Canal 6-5420
York, Otto H, Co, Inc, 69 Glenwood Pl, E Orange, N J — Orange 4-2000
Amer Air Filter Co, Inc, Louisville, Ky — Sly, W W, Mfg Co, Cleveland, O

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Hercules Filter Corp, Paterson, N J — Titeflex Inc, Newark, N J

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York, Otto H, Co, Inc, 69 Glenwood Pl, E Orange, N J — Orange 4-2000
Winslow Eng Co, Oakland, Calif

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Stanley, Wm W, Co, Inc, 401 Bway, N Y — Canal 6-5420
York, Otto H, Co, Inc, 69 Glenwood Pl, E Orange, N J — Orange 4-2000
Sparkler Mfg Co, Mundelein, Ill

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Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
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Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Industrial Filter & Pump Mfg Co, 1621 W Carroll Av, Chicago, Ill — Seeley 3-3632
Shriver, T, & Co, Inc, 874 Hamilton St, Harrison, N J — Harrison 6-2140
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
Ensinger Union Corp, Angola, N Y — Sparkler Mfg Co, Mundelein, Ill

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Cellulo Co, Sandusky, O — 2030
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Corning Glass Wks, Corning, N Y — 372
Denver Equipment Co, 1400 17 St, Denver, Col — Cherry 4466
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
Jacoby-Tarbox Corp, 810 Nepperhan Av, Yonkers, N Y — Yonkers 5-8400
Shriver, T, & Co, Inc, 874 Hamilton St, Harrison, N J — Harrison 6-2140
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
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Ogden Filter Co, Los Angeles, Calif — Sperry, D R, & Co, Batavia, Ill
Sparkler Mfg Co, Mundelein, Ill

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Industrial Filter & Pump Mfg Co, 1621 W Carroll Av, Chicago, Ill — Seeley 3-3632
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Goslin-Birmingham Mfg Co, Birmingham, Ala — U S Hoffman Mach Co, Syracuse, N Y

FILTERS, MAGNETIC

Eriez Mfg Co, Erie, Pa — Stearns Magnetic Mfg Co, Milwaukee, Wis
Frantz, S G, Co, Inc, N Y — U S Hoffman Mach Co, Syracuse, N Y

FILTERS, OIL

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Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Shriver, T, & Co, Inc, 874 Hamilton St, Harrison, N J — Harrison 6-2140
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
Bowser, Inc, Fort Wayne, Ind — Sparkler Mfg Co, Mundelein, Ill
Frantz, S G, Co, Inc, N Y — Sperry, D R, & Co, Batavia, Ill
Gen Amer Transportation Corp, Chicago, Ill — Titeflex Inc, Newark, N J
Nugent, Wm W, & Co, Chicago, Ill — U S Hoffman Mach Co, Syracuse, N Y
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FILTERS, PAINT AND VARNISH

Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326
Shriver, T, & Co, Inc, 874 Hamilton St, Harrison, N J — Harrison 6-2140
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
Cooperative Industries, Inc, Chester, N J — Sparkler Mfg Co, Mundelein, Ill
Hercules Filter Corp, Paterson, N J — Sperry, D R, & Co, Batavia, Ill

FILTERS, PILOT

Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
Cellulo Co, Sandusky, O — 2030
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Shriver, T, & Co, Inc, 874 Hamilton St, Harrison, N J — Harrison 6-2140
Sparkler Mfg Co, Mundelein, Ill — Sperry, D R, & Co, Batavia, Ill

FILTERS, PRE-COAT

Brill Equipment Co, 2401 3 Av, N Y — Cypress 2-5703
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Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Industrial Filter & Pump Mfg Co, 1621 W Carroll Av, Chicago, Ill — Seeley 3-3632
Shriver, T, & Co, Inc, 874 Hamilton St, Harrison, N J — Harrison 6-2140

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Sparkler Mfg Co, Mundelein, Ill
Sperry, D R, & Co, Batavia, Ill
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Buffovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Cellulo Co, Sandusky, O — 2030
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Illinois Water Treatment Co, 858 Cedar St, Rockford, Ill — 2-8851
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Gen Amer Transportation Corp, Chicago, Ill
Hercules Filter Corp, Paterson, N J
Nugent, Wm W, & Co, Chicago, Ill
Ogden Filter Co, Los Angeles, Calif
Sparkler Mfg Co, Mundelein, Ill
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Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Illinois Water Treatment Co, 858 Cedar St, Rockford, Ill — 2-8851

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Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Shriver, T, & Co, Inc, 874 Hamilton St, Harrison, N J — Harrison 6-2140

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Sparkler Mfg Co, Mundelein, Ill
Sperry, D R, & Co, Batavia, Ill

FILTERS, SUCTION (Acid Proof Stoneware)

Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100
Knight, Maurice A, 444 Kelly Av, Akron, O — Parkway 1277

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Blickman, S, Inc, 3100 Gregory Av, Weehawken, N J — Union 3-0300
Brill Equipment Co, 2401 3 Av, N Y — Cypress 2-5703
Buffovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
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Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326

Filtration Engs Inc, Newark, N J
Gen Amer Transportation Corp, Chicago, Ill
Goslin-Birmingham Mfg Co, Birmingham, Ala
Ogden Filter Co, Los Angeles, Calif
Swenson Evaporator Co, Harvey, Ill
U S Hoffman Mach Co, Syracuse, N Y

FILTERS, WATER

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Illinois Water Treatment Co, 858 Cedar St, Rockford, Ill — 2-8851
Industrial Filter & Pump Mfg Co, 1621 W Carroll Av, Chicago, Ill — Seeley 3-3632
Jacoby-Tarbox Corp, 810 Napperhan Av, Yonkers, N Y — Yonkers 5-8400

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Cooperative Industries, Inc, Chester, N J
Downingtown Iron Wks, Downingtown, Pa
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Proportioneers Inc, Providence, R I
Sparkler Mfg Co, Mundelein, Ill
Titeflex Inc, Newark, N J

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Mine Safety Appliances Co, Pittsburgh, Pa
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C-O-Two Fire Equipt Co, Newark, N J
Kidde, Walter, & Co, Inc, Belleville, N J

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Mine Safety Appliances Co, Pittsburgh, Pa

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Cooper Alloy Fdry Co, Hillside, N J

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Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161
Haynes Stellite Div, Union Carbide & Carbon Corp, Kokomo, Ind

Cooper Alloy Fdry Co, Hillside, N J

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Luzerne Rubber Co, Trenton, N J

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Taylor Forge & Pipe Wks, Chicago, Ill
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Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161
Haynes Stellite Div, Union Carbide & Carbon Corp, Kokomo, Ind

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Parker Appliance Co, Cleveland, O

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Ace Equipt Co, Chicago, Ill
Alloy Prods Corp, Waukesha, Wis
Cherry-Burrell Corp, Chicago, Ill

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Autoclave Engrs, Erie, Pa
Cooper Alloy Fdry Co, Hillside, N J
Harris, Arthur, & Co, Chicago, Ill
Ladish Co, Cudahy, Wis
Schnitzer Alloy Prods Co, Elizabeth, N J

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Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544

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Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544

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Schnitzer Alloy Prods Co, Elizabeth, N J
Taylor Forge & Pipe Wks, Chicago, Ill

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Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
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Goslin-Birmingham Mfg Co, Birmingham, Ala

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Harris, Arthur, & Co, Chicago, Ill
Nicholson, W H, & Co, Wilkes-Barre, Pa

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Builders-Providence, Inc, Providence, R I
Minneapolis Honeywell Regulator Co, Phila, Pa
Commercial Research Lab, Inc, Detroit, Mich

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Coleman Instruments Inc, Maywood, Ill
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Midvale Co, Phila, Pa

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Blickman, S, Inc, 3100 Gregory Av, Weehawken, N J — Union 3-0300
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Koch Eng Co, Inc, Wichita, Kansas
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York, Otto H, Co, Inc, 69 Glenwood Pl, E Orange, N J — Orange 4-2000
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Munning & Munning, Inc, Newark, N J

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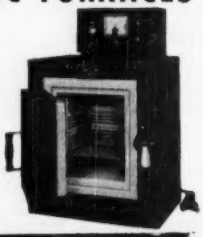
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Standard Science & Supply Co, 1234 N Paulina St, Chicago, Ill — Arm 6-8737
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Scientific Glass Apparatus Co, Inc, Bloomfield, N J — Bloomfield 2-7200
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761
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Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
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Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
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Owens-Illinois Glass Co, Toledo, O — Uhrig, Jos F, Co, Phila, Pa

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Hanovia Chem & Mfg Co, Newark, N J

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Corning Glass Wks, Corning, N Y — 372
Jerguson Gage & Valve, Somerville, Mass

GLASSES, SIGHT

Corning Glass Wks, Corning, N Y — 372
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Standard Science & Supply Co, 1234 N Paulina St, Chicago, Ill — Arm 6-8737
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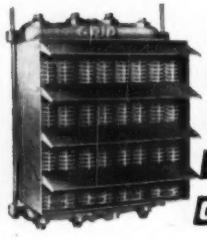
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Republic Rubber Div, Youngstown, O
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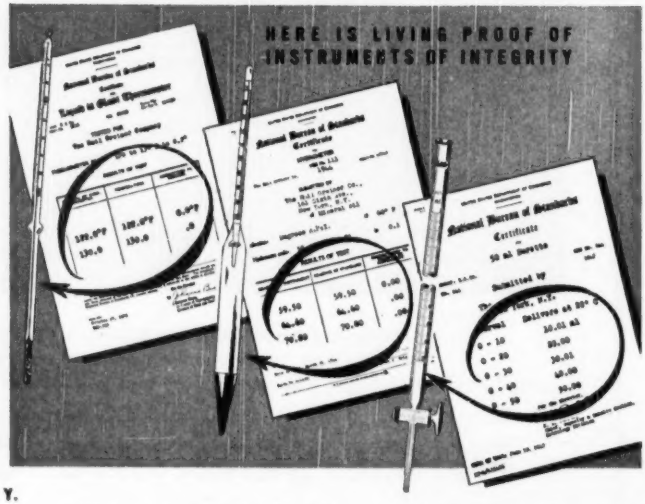
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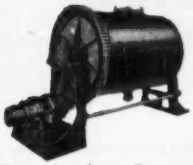
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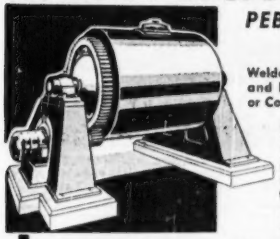
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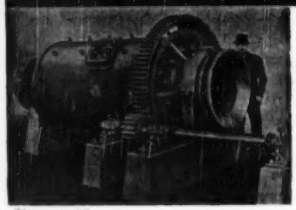
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Bonnot Co, 848 Market Av, N, Canton, O
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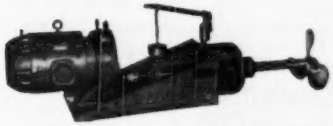
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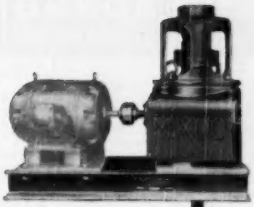
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These ovens were designed and built to the requirements of leading research and control chemists. They offer guaranteed precise performance for Laboratory and Industrial control. Practically constructed and pleasing to the eye.

Send for Special Bulletin No. 27



THE ELECTRIC Hotpack CO. INC.
5035 COTTMAN AVE. · PHILA. 35, PENNA.

OVENS, ELECTRIC

Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Electric Hotpack Co, Inc, 5035 Cottman Av, Phila, Pa — Devonshire 3-1700
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250

Rockwell, W S, Co, Fairfield, Conn — Trent Inc, Phila, Pa

OVENS, LABORATORY

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Electric Hotpack Co, Inc, 5035 Cottman Av, Phila, Pa — Devonshire 3-1700
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Howe & French, 99 Broad St, Boston, Mass — Hancock 5910
Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250
Scientific Glass Apparatus Co, Inc, Bloomfield, N J — Bloomfield 2-7200
Standard Science & Supply Co, 1234 N Paulina St, Chicago, Ill — Arm 6-8757
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

Amer Instrument Co, Inc, Silver Springs, Md — Dietert, Harry W, Co, Detroit, Mich
Central Scientific Co, Chicago, Ill — Precision Scientific Co, Chicago, Ill
Rockwell, W S, Co, Fairfield, Conn

OVENS, TEMPERING AND TREATING

Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Electric Hotpack Co, Inc, 5035 Cottman Av, Phila, Pa — Devonshire 3-1700

Hotpack **HIGH TEMP. OVENS**

GRAVITY CONVECTED

Thermostatically controlled heat to 260° C.—Thirty minutes to 180° C. —Temperature Control 1° C.

For quick, dependable sterilization and drying of petrie dishes, glassware, pipettes and supplies suited to dry heat sterilizing or where high temperatures are required
Simple to install and operate Available for any 110 volt-220 volt current. Thermostat, switches and pilot light located on front panel

Send for Special Bulletin No. 26



THE ELECTRIC Hotpack CO. INC.
5035 COTTMAN AVE. · PHILA. 35, PENNA.

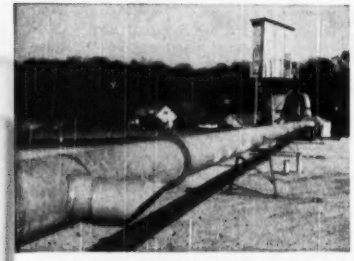
THE KIRK & BLUM MANUFACTURING CO.

2885 Spring Grove Avenue, Cincinnati 25, Ohio

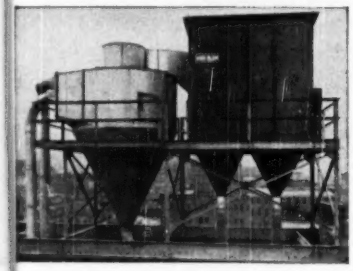
Specialists in the Design, Manufacture and Installation of Dust Control Systems and Industrial Ovens; Plating and Pickling Tanks, Baskets and Acid-Fume Removal Systems; COPPER, MONEL, STAINLESS STEEL, and other METAL ALLOY FABRICATION

Contract Manufacturers in All Sheet Metals and Light Structurals

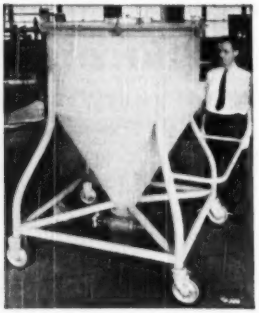
KIRK AND BLUM



A Kirk & Blum Conveying System recently installed for Wm. S. Merrell Co., Cincinnati, for transporting drugs a distance of 500 ft.



Above illustration shows application of a cyclone and dust filter combination for bag cleaning. Cyclone serves as primary collector for coarse or fibrous particles so that only fine dust is carried to dust filter.



A Kirk & Blum unit of large quantity powder storage hoppers, made of 12 gauge steel, reinforcing angle round top, ¾ in. thick ply metal cover, swivel casters and rotary feed valve; for use in the manufacturing of face powder.

PRODUCTS

Dust Control and Shavings Removal Systems; Industrial Ovens for drying, baking, enameling and lacquering.

Fume and Heat Removal Systems; Ventilating and Air Conditioning Systems; Cooling, Drying and Heat Reclamation Systems.

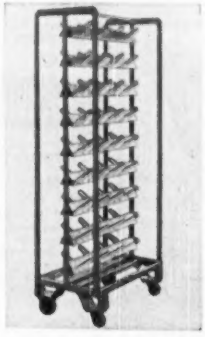
Pickling Baskets, Crates, Lead and Rubber-Lined Tanks; Acid-Fume Exhaust Systems.

Other Products: One-piece Elbows; Blast Gates; Pressed and Rolled Steel Flanges; Belt and Machine Guards; Tote Boxes; Steel Tables; Pressed Steel Louvre Panels, Special Racks and Trucks.

ENGINEERING SERVICE

Kirk & Blum Engineering Service—backed by over 43 years of experience in designing and installing Kirk & Blum equipment for many industrial leaders of United States, Canada, South America—is at the disposal of plant engineers or other factory officials. This service—assuring a definite solution to any problem requiring Kirk & Blum Equipment—includes:

A thorough analysis of the requirements of the job, designing the equipment; submitting a proposal, together with complete specifications and a written performance guarantee; installation by experienced, efficient erectors. Complete information and valuable data on request.



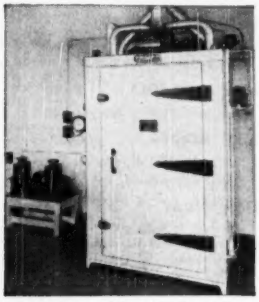
Kirk & Blum Sheet Metal Fabrication. This is one of a series of bobbin racks for rayon plant. Another example of the diversity of products made by Kirk & Blum for various industries.

SEND FOR ANY OF THESE BOOKLETS:

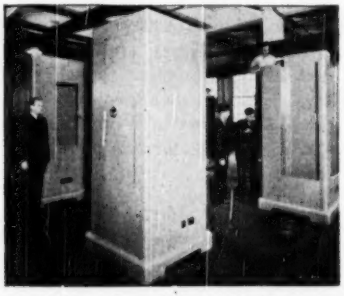
"Custom-Built Electrical Enclosures"
"Dust Collecting Systems in Metal Industries"
"Blower Systems for Woodworking Plants"
"Fan Systems for Various Industries"
"Cooling Systems for the Glass Industry"
"Industrial Ovens"
"Sheet Metal Assemblies"



A Kirk & Blum steam-heated, drying oven, for drying granular chemicals. Built of galvanized steel to resist intense moisture. Automatically controlled by means of air operated controls. All inside parts are steel cadmium plate. Maximum temperature 160 degrees. Can be built for higher temperatures.



Kirk & Blum Small Laboratory Ovens for research and test work for various scientific purposes. Equipped for electricity or gas (direct and indirect) for heating. Model shown is indirect gas heated; mechanical ventilation.



Kirk & Blum Steel cubicles for housing of electrical and air outlets, switches, circuit breakers, etc. An example of the varied sheet metal products fabricated for the electrical industry.

OVENS, TEMPERING AND TREATING (cont'd)

First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900

Rockwell, W S, Co, Fairfield, Conn — Tenney Eng Inc, Newark, N J

OVENS, VACUUM

Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass — Waltham 5-6800
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Electric Hotpack Co, Inc, 5035 Cottman Av, Phila, Pa — Devonshire 3-1700
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326

PACKAGING EQUIPMENT

Aaron Equipment Co, 1347 S Ashland Av, Chicago, Ill — Chesapeake 3-5300
Brill Equipment Co, 2401 3 Av, N Y — Cypress 2-5703
Butcher, L H, & Co, 3628 E Olympic, Los Angeles, Calif — Angelus 2-4101
Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Gump, B F, Co, 1347 S Cicero Av, Chicago, Ill — Bishop 2-3050
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335

Package Machinery Co, Springfield, Mass — Sheffield Tube Corp, New London, Conn
Pneumatic Scale Corp, Ltd, Quincy, Mass — Signode Steel Strapping Co, Chicago, Ill
St Regis Paper Co, N Y

PACKAGING EQUIPMENT, MACHINES

Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335

Package Machinery Co, Springfield, Mass — Signode Steel Strapping Co, Chicago, Ill

PACKERS, BAGS

Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Gump, B F, Co, 1347 S Cicero Av, Chicago, Ill — Bishop 2-3050

Pneumatic Scale Corp, Ltd, Quincy, Mass — St Regis Paper Co, N Y



VIBROX PACKERS

"Vibrate and Rock
Pack While They Fill"

Thorough packing reduces packing time to a minimum—makes possible savings in size of containers—soon pays its own cost. Shipped complete, ready to operate.

Containers and Bags
No. 11 Vibrox ..... 5 to 15 lbs.
No 21 Vibrox ..... 25 to 75 lbs.

Bags and Sacks Only
No. 36 Vibrox ..... 75 to 150 lbs.

Barrels, Drums and Kegs
No. 41 Vibrox ..... 100 to 750 lbs.

B. F. GUMP CO.

1347 South Cicero Avenue — Chicago 50, Illinois

PACKERS, BARREL

First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Gump, B F, Co, 1347 S Cicero Av, Chicago, Ill — Bishop 2-3050

PACKING, ASBESTOS

Goodall Rubber Co, Whitehead Rd, Trenton, N J — Trenton 2-6175
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

Gatke Corp, Chicago, Ill

PACKING, HYDRAULIC

Goodall Rubber Co, Whitehead Rd, Trenton, N J — Trenton 2-6175
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

Parker Appliance Co, Cleveland, O

PACKING, METALLIC

Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
York, Otto H, Co, Inc, 69 Glenwood Pl, E Orange, N J — Orange 4-2000

PACKING, PLASTIC

Goodall Rubber Co, Whitehead Rd, Trenton, N J — Trenton 2-6175
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

PACKING, PUMP

Goodall Rubber Co, Whitehead Rd, Trenton, N J — Trenton 2-6175
Industrial Filter & Pump Mfg Co, 1621 W Carroll Av, Chicago, Ill — Seeley 3-3632
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

PACKING, RUBBER

Goodall Rubber Co, Whitehead Rd, Trenton, N J — Trenton 2-6175
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

Parker Appliance Co, Cleveland, O — U S Rubber Co, N Y

PACKING, TOWER

Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Knight, Maurice A, 444 Kelly Av, Akron, O — Parkway 1277
York, Otto H, Co, Inc, 69 Glenwood Pl, E Orange, N J — Orange 4-2000

PACKING, TOWER (Acid-Proof)

Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Knight, Maurice A, 444 Kelly Av, Akron, O — Parkway 1277

Chemsteel Construction Co, Inc, Pittsburgh, Pa

PACKING VALVE

Goodall Rubber Co, Whitehead Rd, Trenton, N J — Trenton 2-6175
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

PAILS, FIBRE SHIPPING

Continental Can Co, Inc, 100 E 42 St, N Y — Murray Hill 3-4100
Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250

Master Package Corp, Owen, Wis

PAILS, HARD RUBBER

Luzerne Rubber Co, Trenton, N J

PAILS, METAL

Continental Can Co, Inc, 100 E 42 St, N Y — Murray Hill 3-4100
Crown Can Co, H St & Erie Av, Phila, Pa — Jefferson 3-5000
Niles Steel Prods Div, Republic Steel Corp, 465 Walnut St, Niles, O — Niles 2-2521

Geuder Paeshke & Frey Co, Milwaukee, Wis — Ohio Corrugating Co, Warren, O
Inland Steel Container Co, Chicago, Ill

PANS, ACIDULATING

Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900

PANS, CRYSTALLIZING

Blickman, S, Inc, 3100 Gregory Av, Weehawken, N J — Union 3-0300
Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900

PANS, MIXING

Allied Steel & Equipment Co, Chester, N J — Chester 141
Bonnot Co, 848 Market Av, N, Canton, O
Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335

PANS, STEAM-JACKETED

Allied Steel & Equipment Co, Chester, N J — Chester 141
Blickman, S, Inc, 3100 Gregory Av, Weehawken, N J — Union 3-0300
Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335

PANS, VACUUM

Aaron Equipment Co, 1347 S Ashland Av, Chicago, Ill — Chesapeake 3-5300
Allied Steel & Equipment Co, Chester, N J — Chester 141
Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass — Waltham 5-6800
Blickman, S, Inc, 3100 Gregory Av, Weehawken, N J — Union 3-0300
Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335

Stokes Machine Co, Phila, Pa

PAPER, INSULATING

Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

PERCOLATORS

Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass — Waltham 5-6800
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600

pH COLORIMETER

Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

Taylor, W A, & Co, Baltimore, Md

pH CONTROL APPARATUS

Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

Lamotte Chem Prod, Baltimore, Md — Leeds & Northrup Co, Phila, Pa

pH MEASURING & RECORDING INSTRUMENTS

Bailey Meter Co, 1054 Ivanhoe Rd, Cleveland, O — Glenville 1-4600
Cambridge Instrument Co, Inc, Grand Central Terminal Bldg, N Y — Murray Hill 6-0335

pH MEASURING & RECORDING INSTRUMENTS (cont'd)

Greiner, Emil, Co, 20-26 N Moore St, N Y — **Digby 9-0660**

Central Scientific Co, Chicago, Ill
Coleman Instruments Inc, Maywood, Ill
Leeds & Northrup Co, Phila, Pa
Natl Technical Labs, S Pasadena, Calif

PHOTOMETERS

Amer Roland Corp, 16 Hudson St, N Y — **Digby 9-0170**
Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — **Express 1-1330**
Will Corp, 39 Russell St, Rochester, N Y — **Monroe 0761**

Amer Instrument Co, Inc, Silver Springs, Md
Gardner, Henry A, Lab, Inc, Bethesda, Md
Natl Technical Labs, S Pasadena, Calif
Perkin-Elmer Corp, Glenbrook, Conn

PHOTOMETERS, LIGHT-TRANSMISSION

Central Scientific Co, Chicago, Ill
Gardner, Henry A, Lab, Inc, Bethesda, Md
Natl Technical Labs, S Pasadena, Calif

PHOTOMICROGRAPHIC EQUIPMENT

Will Corp, 39 Russell St, Rochester, N Y — **Monroe 0761**

Ferner, R Y, Co, Inc, Boston, Mass

PILL MACHINERY

Amer Roland Corp, 16 Hudson St, N Y — **Digby 9-0170**
Chem & Process Machinery Corp, 146 Grand St, N Y — **Worth 4-8130**
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — **Barclay 7-0600**
First Machinery Corp, 157 Hudson St, N Y — **Worth 4-5900**

PIPE, ALUMINUM

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — **Dickens 2-4900**
Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — **Kirby 5250**

Celonial Alloys Co, Phila, Pa
Revere Copper & Brass Inc, N Y

PIPE, BELL AND SPIGOT

Duriron Co, 450 N Findlay St, Dayton, O — **Kenmore 5161**
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — **Perth Amboy 4-5100**

Clow, James B, & Sons, Chicago, Ill
Pacific Clay Prods, Los Angeles, Calif

PIPE, COPPER

Revere Copper & Brass Inc, N Y

PIPE FITTINGS, ALLOY, STEEL

Astell, John B, & Co, Inc, 90 West Bway, N Y — **Cortlandt 7-7544**

Parker Appliance Co, Cleveland, O
Taylor Forge & Pipe Wks, Chicago, Ill

PIPE FITTINGS, FORGED STEEL

Astell, John B, & Co, Inc, 90 West Bway, N Y — **Cortlandt 7-7544**

Parker Appliance Co, Cleveland, O
Taylor Forge & Pipe Wks, Chicago, Ill

PIPE, FLANGED

Duriron Co, 450 N Findlay St, Dayton, O — **Kenmore 5161**

Clow, James B, & Sons, Chicago, Ill

PIPE, GLASS

Corning Glass Wks, Corning, N Y — 372
Scientific Glass Apparatus Co, Inc, Bloomfield, N J — **Bloomfield 2-7200**

PIPE, HARD RUBBER

Amer Hard Rubber Co, N Y
Luzerne Rubber Co, Trenton, N J

PIPE, HEAT RESISTING

Astell, John B, & Co, Inc, 90 West Bway, N Y — **Cortlandt 7-7544**
Corning Glass Wks, Corning, N Y — 372

Babcock & Wilcox Tube Co, Beaver Falls, Pa

PIPE, LEAD

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — **Dickens 2-4900**

Eagle-Picher Co, Cincinnati, O
Natl Lead Co, N Y
Republic Metals Co, Bklyn, N Y

PIPE, PLASTIC

Knight, Maurice A, 444 Kelly Av, Akron, O — **Parkway 1277**

Amer Hard Rubber Co, N Y
Plax Corp, Hartford, Conn

PIPE, PORCELAIN

Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — **Perth Amboy 4-5100**
Illinois Electric Porcelain Co, Macomb, Ill — 51

PIPE, RUBBER LINED

Industrial Filter & Pump Mfg Co, 1621 W Carroll Av, Chicago, Ill — **Seeley 3-3632**

Amer Hard Rubber Co, N Y
Heil Process Equipt Corp, Cleveland, O
Luzerne Rubber Co, Trenton, N J
Raybestos-Manhattan, Inc, Passaic, N J

PIPE, STAINLESS STEEL

Astell, John B, & Co, Inc, 90 West Bway, N Y — **Cortlandt 7-7544**
Republic Steel Corp, Republic Bldg, Cleveland, O — **Prospect 1-1400**

Allegheny Ludlum Steel Corp, Pittsburgh, Pa
Babcock & Wilcox Tube Co, Beaver Falls, Pa
Schnitzer Alloy Prods Co, Elizabeth, N J

PIPE, STEEL

Republic Steel Corp, Republic Bldg, Cleveland, O — **Prospect 1-1400**

Armco Steel Corp, Middletown, O
Babcock & Wilcox Tube Co, Beaver Falls, Pa
Taylor Forge & Pipe Wks, Chicago, Ill

PIPE, STONEWARE

Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — **Perth Amboy 4-5100**
Knight, Maurice A, 444 Kelly Av, Akron, O — Parkway 1277

STAINLESS STEEL and ALLOY PIPING

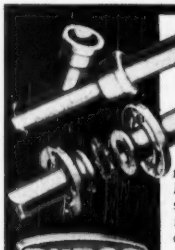
High and low pressure pipe, #18 gauge to ¼" wall thickness, formed and welded from alloy sheets. Straight lengths furnished in diameters 4" and larger. Prefabricated assemblies furnished in any diameters. Bends, inter-sections, coils, tees, ells, Van Stone joints, mitred joints, complete piping layouts custom fabricated to your specifications. Furnished with or without flanges. Welding to A.S.M.E. code specifications. Available in high finishes.

EST 1889

S. BLICKMAN, INC.
3100 Gregory Avenue, Weehawken, New Jersey

PIPING, CORROSION RESISTING

Astell, John B, & Co, Inc, 90 West Bway, N Y — **Cortlandt 7-7544**
Blickman, S, Inc, 3100 Gregory Av, Weehawken, N J — **Union 3-0300**
Corning Glass Wks, Corning, N Y — 372
Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161



PIPE THAT CARRIES ACID SAFELY

Durco bell- and-spigot and split flanged pipe and fittings provide safe passage for a wide range of acids and other corrosives. Made in Duriron and Durichlor (high silicon irons), they are inherently corrosion-resistant, requiring no protective coating. Bulletin 70 describes bell-and-spigot type, bulletin 704 describes split flanged pipe.

DURCO
CORROSION RESISTING ALLOYS & EQUIPMENT

THE DURIRON COMPANY, Inc.
DAYTON 1, OHIO, U.S.A.

Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — **Perth Amboy 4-5100**
Haynes Stellite Div, Union Carbide & Carbon Corp, Kokomo, Ind
Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250
Knight, Maurice A, 444 Kelly Av, Akron, O — Parkway 1277
National Carbon Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

PIPE & FITTINGS
CHEMICAL STONEWARE & PORCELAIN
IMPERVITE
(Impregnated Graphite)

GENERAL CERAMICS AND STEATITE CORPORATION CHEMICAL EQUIPMENT

GENERAL CERAMICS & STEATITE CORP.
Chemical Equipment Division
Main Office and Plant: Keasbey, New Jersey

Non-Advertisers Street Addresses—See Pages 613-618

GOODALL *Means Safety and Economy in Plant and Laboratory . . . .*

Goodall **quality** in products for the Chemical Industry has established a reputation for long, reliable service that warrants your confidence. The items described below have long proven their practicability and economy.

"KEMITE" DUCT has extreme flexibility; a pure natural rubber tube that's highly resistant to abrasive wear and permeation of liquids or gases; a patented wire-reinforced carcass that will not collapse or kink, even on sharp bends; and a tough, long-wearing cover that is not affected by acids or fumes. Sizes, ¼" to 4".

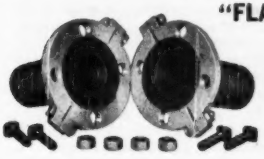
"GOODITE" PIPE has the same characteristics as "Kemite", but is made in larger sizes—up to 12". Available in two constructions, for either suction or discharge.
Both "Kemite" and "Goodite" can be furnished with tube compounded to meet specific service requirements; and complete with "Flang-Lok" ends and "Flang-Lok" Flanges.

GOODALL EXPANSION JOINTS

New principles of construction and operation make Goodall Rubber Expansion Joints superior to other types in strength, efficiency, safety, and ease of installation. Available for all standard pipe sizes from ⅜" to 96", I.D., on lines carrying fluids, steam, air or gases, under vacuum or pressure, at temperatures up to 250° F. Designed for use with "Flang-Lok" Flanges.



"FLANG-LOK" FLANGES



are quickly installed. Each flange is in two sections. Standard drilling permits easy bolting to pipe flanges. Shaped to fit "Flang-Lok" ends of "Kemite Duct", "Goodite Pipe" or Goodall Expansion Joints, they draw them together to form a rubber-to-rubber seal that remains permanently leakproof. No metal comes in contact with material passing through pipe or joint.

"SNAP-IN" LOOSE RUBBER LINERS . . .

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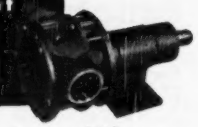
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Jabsco Pump Co, 2031 N Lincoln St, Burbank, Calif	Stanley 7-3381
La Bour Co, Inc, Elkhart, Ind	3518
Milton Roy Co, 1382 E Mermaid Lane, Phila, Pa	Wissahickon 7-8000
Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn	Norwalk 6-3351
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O	3-6461
Scientific Glass Apparatus Co, Inc, Bloomfield, N J	Bloomfield 2-7200
Shriver, T, & Co, Inc, 874 Hamilton St, Harrison, N J	Harrison 6-2140
Wilfley, A R, & Sons, Inc, Denham Bldg, Denver, Colo	Main 3204

Bump Pump Co, La Crosse, Wis
Goulds Pumps Inc, Seneca Falls, N Y
Lawrence Machine & Pump Corp, Lawrence, Mass
Lewis, Charles S, & Co, St, Louis, Mo
Portable Pump Co, St Louis, Mo
Schnitzer Alloy Prods Co, Elizabeth, N J
Waterous Co, St Paul, Minn

R & M MOYNOS PUMP "ANYTHING"

No Pistons • No Valves • Reversible



Moyno "progressing-cavity" action self-primes with nearly perfect vacuum; delivers positive pressures to 1000 p.s.i. without pulsation or high turbulence.

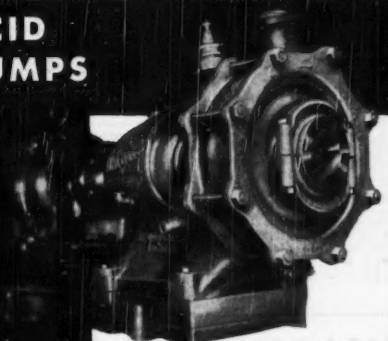
NO OTHER PUMP LIKE THIS
Bearings are completely isolated from pumping compartment. No portion of housing is used as sealing surface. Easily cleaned. Thousands already in use.

CHEMICALS, ABRASIVES, HIGHLY VISCOUS FLUIDS, SOLIDS IN SUSPENSION — *everything that can be pushed through a pipe!*

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Modern, long-service, acid-handling pumps with capacities up to 2000 gpm. and heads up to 230 ft. Built of Duriron or Durichlor (high silicon irons), Durimet 20, Durco D-10, Monel, Ni-Resist, Pure Nickel and Chlorimet. For complete details of standard pumps, write for Bulletin 815; for self-priming pumps, ask for Bulletin 816.

DURCO CORROSION RESISTANT ALLOYS & EQUIPMENT

THE DURIRON COMPANY, Inc.
DAYTON 1, OHIO, U.S.A.

PUMPS, ACID RESISTING

Alsop Engineering Corp, 500 Center St, Milldale, Conn	Southington 740
Aurora Pump Co, 115 Loucks St, Aurora, Ill	Aurora 2-4381
Consolidated Prods Co, Inc, 13-21 Park Row, N Y	Barclay 7-0600
Denver Equipment Co, 1400 17 St, Denver, Col	Cherry 4466
Duriron Co, 450 N Findlay St, Dayton, O	Kenmore 5161
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J	Perth Amboy 4-5100

PUMPS, ACID RESISTING (cont'd)

Jabsco Pump Co, 2031 N Lincoln St, Burbank, Calif	Stanley 7-3381
La Bour Co, Inc, Elkhart, Ind	3518
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill	Brunswick 8-5326
Milton Roy Co, 1382 E Mermaid Lane, Phila, Pa	Wissahickon 7-8000
Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn	Norwalk 6-3351
National Carbon Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y	Murray Hill 7-8000
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O	3-6461
Shriver, T, & Co, Inc, 874 Hamilton St, Harrison, N J	Harrison 6-2140
Wilfley, A R, & Sons, Inc, Denham Bldg, Denver, Colo	Main 3204

Ampco Metal Inc, Milwaukee, Wis
Bump Pump Co, La Crosse, Wis
De Laval Steam Turbine Co, Trenton, N J
Eastern Industries Inc, New Haven, Conn
Goulds Pumps Inc, Seneca Falls, N Y
Lawrence Machine & Pump Corp, Lawrence, Mass
Morris Machine Wks, Baldwinsville, N Y
Pioneer Alloy Prods Co Inc, Cleveland, O
Portable Pump Co, St Louis, Mo
Waterous Co, St Paul, Minn

PUMPS, AIR-LIFT

Knight, Maurice A, 444 Kelly Av, Akron, O	Parkway 1277
Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn	Norwalk 6-3351
Gardner-Denver Co, Quincy, Ill	Pennsylvania Pump & Compressor Co, Easton Pa,

PUMPS, AIR MOTOR OPERATED

Milton Roy Co, 1382 E Mermaid Lane, Phila, Pa — Wissahickon 7-8000
Proportioneers Inc, Providence, R I

PUMPS, BARREL

Blackmer Pump Co, 1910 Century Av, S W, Grand Rapids, Mich — 5-9211
De Laval Steam Turbine Co, Trenton, N J

PUMPS, CARBOY

Belke Mfg Co, Chicago, Ill
Portable Pump Co, St Louis, Mo

PUMPS, CAULKING COMPOUND

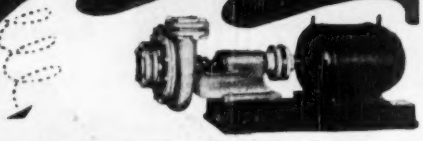
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

PUMPS, CENTRIFUGAL

Aaron Equipment Co, 1347 S Ashland Av, Chicago, Ill	Chesapeake 3-5300
Alsop Engineering Corp, 500 Center St, Milldale, Conn	Southington 740
Aurora Pump Co, 115 Loucks St, Aurora, Ill	Aurora 2-4381
Denver Equipment Co, 1400 17 St, Denver, Col	Cherry 4466
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill	Calumet 5-8900
First Machinery Corp, 157 Hudson St, N Y	Worth 4-5900
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J	Perth Amboy 4-5100
Industrial Filter & Pump Mfg Co, 1621 W Carroll Av, Chicago, Ill	Seeley 3-3632

Advertisers' Branch Offices and Telephone Numbers—See Pages 613-618

For *EFFICIENT* Pumping of
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LABOUR
***Self-Priming* Centrifugal Pumps**

Besides being actually self-priming, LaBour centrifugal pumps operate at efficiencies usually associated with equipment considerably more vulnerable to wear.

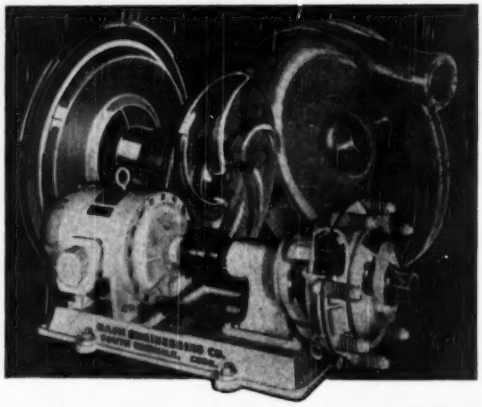
You can get all the interesting facts about these cost-reducing LaBour pumps, priming and non-priming, in Bulletin No. 50. Write for your free copy today.

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1881 Sterling Ave. Elkhart, Indiana



LaBour Type DPL

LABOUR PUMPS



NASH GLASS CENTRIFUGAL PUMP

An all glass centrifugal pump, designed for handling acids, or any liquid it is desirable to keep chemically unchanged. Pump casing and impeller are of "PYREX" brand glass, resistant to heat and shock. Unique seal replaces usual stuffing box. Pump is protected from fracture by internal pressure. Capacities to 50 gal. per minute against pressure heads up to 50 lbs. per square inch. Operation at standard motor speeds. Request Bulletin.

NASH ENGINEERING COMPANY
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PUMPS, CENTRIFUGAL (cont'd)

La Bour Co, Inc, Elkhart, Ind 3518
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill Brunswick 8-5326
Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn Norwalk 6-3351
Wilfley, A R, & Sons, Inc, Denham Bldg, Denver, Colo Main 3204

Amer Manganese Steel Div, Chicago Hghts, Ill
Ampco Metal Inc, Milwaukee, Wis
De Laval Steam Turbine Co, Trenton, N J
Eastern Industries Inc, New Haven, Conn
Fairbanks Morse & Co, Chicago, Ill
Gardner-Denver Co, Quincy, Ill
Goulds Pumps Inc, Seneca Falls, N Y
Lawrence Machine & Pump Corp, Lawrence, Mass
Lewis, Charles S, & Co, St. Louis, Mo
Morris Machine Wks, Baldwinsville, N Y
Pennsylvania Pump & Compressor Co, Easton Pa,
Portable Pump Co, St Louis, Mo

PUMPS, CENTRIFUGAL STONEWARE

Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J Perth Amboy 4-5100

PUMPS, CONDENSATION

Aurora Pump Co, 115 Loucks St, Aurora, Ill Aurora 2-4381
Consolidated Prods Co, Inc, 13-21 Park Row, N Y Barclay 7-0600
La Bour Co, Inc, Elkhart, Ind 3518
Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn Norwalk 6-3351

De Laval Steam Turbine Co, Trenton, N J
Goulds Pumps Inc, Seneca Falls, N Y

PUMPS, DEWATERING

La Bour Co, Inc, Elkhart, Ind 3518
Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn Norwalk 6-3351

De Laval Steam Turbine Co, Trenton, N J
Fairbanks Morse & Co, Chicago, Ill
Pennsylvania Pump & Compressor Co, Easton Pa,

Denver *Adjustable Stroke* Diaphragm Pumps

for corrosive and caustic pulps

these Denver Adjustable Stroke Diaphragm Pumps will handle 35 percent solids and 65 percent solution by weight of a caustic with salt in suspension; liquid specific gravity 1.29, specific gravity of solids 2.5, temperature 120° F. This is a typical application for these units. Corrosive pulps are easily handled with these pumps due to their adjustable stroke feature while in operation, which insures positive control with uniform discharge density. Write for Bulletin No. P8-B.



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DENVER EQUIPMENT COMPANY
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PUMPS, DIAPHRAGM

Consolidated Prods Co, Inc, 13-21 Park Row, N Y Barclay 7-0600
Denver Equipment Co, 1400 17 St, Denver, Col Cherry 4466
Derr Co, Barry Place, Stamford, Conn Stamford 4-1151
Shriver, T, & Co, Inc, 874 Hamilton St, Harrison, N J Harrison 6-2140

Wallace & Tiernan Inc, Belleville, N J

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For corrosive and abrasive, quick settling, heavy, viscous, valuable or easily contaminated materials. Double acting, reciprocating, positive. Capacities from ½ to 100 G.P.M. Pressures to 100 p.s.i. Built of any metal or rubber covered. No packings—no leakage—easy to clean. For any type of drive.

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PUMPS, DIFFUSION

Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y Glenwood 1877
Natl Research Corp, Eng Div, Cambridge, Mass

PUMPS, DRUM

Blackmer Pump Co, 1910 Century Av, S W, Grand Rapids, Mich 5-9211

Non-Advertisers Street Addresses—See Pages 613-618

PUMPS, FORCED-INDUCTION

Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
Bowser, Inc, Fort Wayne, Ind

PUMPS, GEAR

Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900

Eastern Industries Inc, New Haven, Conn
Hydraulic Press Mfg Co, Mt Gilead, O
Schutte & Koerting Co, Phila, Pa
Viking Pump Co, Cedar Falls, Iowa

PUMPS, GLASS

Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn — Norwalk 6-3351

PUMPS, GREASE

Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

Bump Pump Co, La Crosse, Wis
Foster Pump Wks, Inc, Bklyn, N Y
Viking Pump Co, Cedar Falls, Iowa

PUMPS, HAND

Blackmer Pump Co, 1910 Century Av, S W, Grand Rapids, Mich — 5-9211

PUMPS, HARD RUBBER

Amer Hard Rubber Co, N Y
Luzerne Rubber Co, Trenton, N J

PUMPS, HEAVY VISCOUS MATERIAL

Beach-Russ Co, 44 Church St, N Y — Cortlandt 7-1115
Blackmer Pump Co, 1910 Century Av, S W, Grand Rapids, Mich — 5-9211
Milton Roy Co, 1382 E Mermaid Lane, Phila, Pa — Wissahickon 7-8000
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461
Shriver, T, & Co, Inc, 874 Hamilton St, Harrison, N J — Harrison 6-2140

Bump Pump Co, La Crosse, Wis
De Laval Steam Turbine Co, Trenton, N J
Foster Pump Wks, Inc, Bklyn, N Y
Morris Machine Wks, Baldwinsville, N Y
Roots-Connersville Blower Corp, Connersville, Ind
Viking Pump Co, Cedar Falls, Iowa
Watercus Co, St Paul, Minn

PUMPS, HIGH PRESSURE

Aurora Pump Co, 115 Loucks St, Aurora, Ill — Aurora 2-4381
Milton Roy Co, 1382 E Mermaid Lane, Phila, Pa — Wissahickon 7-8000
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

Aldrich Pump Co, Allentown, Pa
Amer Instrument Co, Inc, Silver Springs, Md
De Laval Steam Turbine Co, Trenton, N J
Hydraulic Press Mfg Co, Mt Gilead, O
Hydropress, Inc, N Y
Pennsylvania Pump & Compressor Co, Easton Pa,

PUMPS, INSULATING COMPOUNDS

Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

PUMPS, JACKETED

Aurora Pump Co, 115 Loucks St, Aurora, Ill — Aurora 2-4381
Beach-Russ Co, 44 Church St, N Y — Cortlandt 7-1115
Milton Roy Co, 1382 E Mermaid Lane, Phila, Pa — Wissahickon 7-8000

Foster Pump Wks, Inc, Bklyn, N Y
Viking Pump Co, Cedar Falls, Iowa

PUMPS, JET (Steam, Air, Water)

Aurora Pump Co, 115 Loucks St, Aurora, Ill — Aurora 2-4381
National Carbon Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

Wheeler, C H, Mfg Co, Phila, Pa

PUMPS, LINED

Blackmer Pump Co, 1910 Century Av, S W, Grand Rapids, Mich — 5-9211
Denver Equipment Co, 1400 17 St, Denver, Col — Cherry 4466

Foster Pump Wks, Inc, Bklyn, N Y
Lawrence Machine & Pump Corp, Lawrence, Mass
Morris Machine Wks, Baldwinsville, N Y

PUMPS, LUBRICANT

Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
Aurora Pump Co, 115 Loucks St, Aurora, Ill — Aurora 2-4381
Blackmer Pump Co, 1910 Century Av, S W, Grand Rapids, Mich — 5-9211
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

De Laval Steam Turbine Co, Trenton, N J
Gelber, Sam S, Co, Chicago, Ill
Viking Pump Co, Cedar Falls, Iowa

PUMPS, MIDGET

Beach-Russ Co, 44 Church St, N Y — Cortlandt 7-1115
Milton Roy Co, 1382 E Mermaid Lane, Phila, Pa — Wissahickon 7-8000

Eastern Industries Inc, New Haven, Conn
Gelber, Sam S, Co, Chicago, Ill
Proportioneers Inc, Providence, R I

PUMPS, NON-LUBRICATED

Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn — Norwalk 6-3351
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

Bump Pump Co, La Crosse, Wis
Eastern Industries Inc, New Haven, Conn
Viking Pump Co, Cedar Falls, Iowa

PUMPS, OIL

Aurora Pump Co, 115 Loucks St, Aurora, Ill — Aurora 2-4381
Blackmer Pump Co, 1910 Century Av, S W, Grand Rapids, Mich — 5-9211
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

PUMPS, OIL (cont'd)

Aldrich Pump Co, Allentown, Pa
Bowser, Inc, Fort Wayne, Ind
Bump Pump Co, La Crosse, Wis
De Laval Steam Turbine Co, Trenton, N J
Hydraulic Press Mfg Co, Mt Gilead, O
Natl Airoil Burner Co, Phila, Pa
Nugent, Wm W, & Co, Chicago, Ill
Viking Pump Co, Cedar Falls, Iowa
Watercus Co, St Paul, Minn

PUMPS, OPEN IMPELLER

Aurora Pump Co, 115 Loucks St, Aurora, Ill — Aurora 2-4381
Industrial Filter & Pump Mfg Co, 1621 W Carroll Av, Chicago, Ill — Seeley 3-3632
La Bour Co, Inc, Elkhart, Ind — 3518

De Laval Steam Turbine Co, Trenton, N J
Gelber, Sam S, Co, Chicago, Ill
Goulds Pumps Inc, Seneca Falls, N Y
Lawrence Machine & Pump Corp, Lawrence, Mass
Morris Machine Wks, Baldwinsville, N Y

PUMPS, PLASTIC

Milton Roy Co, 1382 E Mermaid Lane, Phila, Pa — Wissahickon 7-8000
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461
Wilfley, A R, & Sons, Inc, Denham Bldg, Denver, Colo — Main 3204

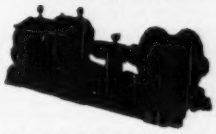
Aldrich Pump Co, Allentown, Pa

PUMPS, PORTABLE

Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
Beach-Russ Co, 44 Church St, N Y — Cortlandt 7-1115
Jabsco Pump Co, 2031 N Lincoln St, Burbank, Calif — Stanley 7-3381
La Bour Co, Inc, Elkhart, Ind — 3518
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

Bump Pump Co, La Crosse, Wis
Gelber, Sam S, Co, Chicago, Ill
Goulds Pumps Inc, Seneca Falls, N Y
Portable Pump Co, St Louis, Mo
Watercus Co, St Paul, Minn

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Rotary — Positive
No Contamination
Easy to Clean
Ample Suction
Corrosion-Resistant

Ideal for liquids, semi-fluids and pastes. Simple design and slow-speed operation. Can be jacketed for any temperature. Equipped with any drive. Capacities, 1 to 440 g.p.m.

BEACH-RUSS COMPANY
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PUMPS, POWER ROTARY

Beach-Russ Co, 44 Church St, N Y — Cortlandt 7-1115
Blackmer Pump Co, 1910 Century Av, S W, Grand Rapids, Mich — 5-9211
Jabsco Pump Co, 2031 N Lincoln St, Burbank, Calif — Stanley 7-3381

Bump Pump Co, La Crosse, Wis
De Laval Steam Turbine Co, Trenton, N J
Foster Pump Wks, Inc, Bklyn, N Y
Goulds Pumps Inc, Seneca Falls, N Y
Roots-Connersville Blower Corp, Connersville, Ind
Viking Pump Co, Cedar Falls, Iowa
Watercus Co, St Paul, Minn

BLACKMER ROTARY

POWER PUMPS
5 to 1500 GPM Cap.
Pressures to 150 p.s.i.
Unlined, for liquids with lubricating qualities. With removable liner for corrosive and abrasive liquids. Steam-jacketed for viscous liquids.
Write For Bulletin 307

HAND PUMPS
10 to 25 GPM Cap.
Self-Priming. 20-Ft. Lift.
Barrel, vat, wall or flange mounting. Over 50 models. For use in transferring viscous or nonviscous liquids. Self-adjusting for wear.
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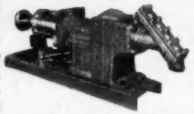
BLACKMER PUMP COMPANY
1910 CENTURY AVENUE, GRAND RAPIDS 9, MICHIGAN

PUMPS, PROPORTIONING

Milton Roy Co, 1382 E Mermaid Lane, Phila, Pa — Wissahickon 7-8000
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

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• for Controlled Volume Pumping



Air powered chemical pumps with exclusive Milton Roy non-clogging, self-cleaning, double ball-check Liquid Ends. Widely applicable — chemicals, acids, caustics, sludges, slurries, solvents, etc. Capacities to 405 GPH. Pressures to 25,000 psi. For feeding one to a dozen streams in precise ratio. Write for Bulletin #450 showing various systems, automatic control equipment, etc.

MILTON ROY COMPANY

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PUMPS, PROPORTIONING (cont'd)

Shriver, T. & Co, Inc, 874 Hamilton St, Harrison, N J — Harrison 6-2140

Aldrich Pump Co, Allentown, Pa
Bowser, Inc, Fort Wayne, Ind
Proportioneers Inc, Providence, R I
Waterous Co, St Paul, Minn

PUMPS, PUTTY

Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

PUMPS, RECIPROCATING

Milton Roy Co, 1382 E Mermaid Lane, Phila, Pa — Wissahickon 7-8000

Aldrich Pump Co, Allentown, Pa
Gardner-Denver Co, Quincy, Ill

PUMPS, ROTARY VACUUM

Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
Beach-Russ Co 44 Church St, N Y — Cortlandt 7-1115
Buffkvak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326
Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn — Norwalk 6-3351

Foster Pump Wks, Inc, Bklyn, N Y
Roots-Connersville Blower Corp, Connersville, Ind

PUMPS, RUBBER LINED

Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461
Wilfley, A R. & Sons, Inc, Denham Bldg, Denver, Colo — Main 3204

Amer Hard Rubber Co, N Y

PUMPS, SANITARY

Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
Ashell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544
Beach-Russ Co, 44 Church St, N Y — Cortlandt 7-1115
Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Jabsco Pump Co, 2031 N Lincoln St, Burbank, Calif — Stanley 7-3381
Milton Roy Co, 1382 E Mermaid Lane, Phila, Pa — Wissahickon 7-8000
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

Ace Equipt Co, Chicago, Ill
Bump Pump Co, La Crosse, Wis
Cherry-Burrell Corp, Chicago, Ill
Consolidated Siphon Supply Co, N Y
De Laval Steam Turbine Co, Trenton, N J
Enzinger Union Corp, Angola, N Y
Gelber, Sam S, Co, Chicago, Ill
Viking Pump Co, Cedar Falls, Iowa
Waterous Co, St Paul, Minn
Waukesha Fdry Co, Waukesha, Wis

PUMPS, SEALING COMPOUNDS

Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

Foster Pump Wks, Inc, Bklyn, N Y

PUMPS, SELF PRIMING

Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
Aurora Pump Co, 115 Loucks St, Aurora, Ill — Aurora 2-4381
Blackmer Pump Co, 1910 Century Av, S W, Grand Rapids, Mich — 5-9211
Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Jabsco Pump Co, 2031 N Lincoln St, Burbank, Calif — Stanley 7-3381
La Bour Co, Inc, Elkhart, Ind — 3518
Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn — Norwalk 6-3351
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

Amer Manganese Steel Div, Chicago Hghts, Ill
Bump Pump Co, La Crosse, Wis
De Laval Steam Turbine Co, Trenton, N J
Foster Pump Wks, Inc, Bklyn, N Y
Goulds Pumps Inc, Seneca Falls, N Y
Lawrence Machine & Pump Corp, Lawrence, Mass
Portable Pump Co, St Louis, Mo
Viking Pump Co, Cedar Falls, Iowa
Waterous Co, St Paul, Minn

PUMPS, SEWAGE

Aurora Pump Co, 115 Loucks St, Aurora, Ill — Aurora 2-4381
Denver Equipment Co, 1400 17 St, Denver, Col — Cherry 4466
Dorr Co, Barry Place, Stamford, Conn — Stamford 4-1151
Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn — Norwalk 6-3351
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

De Laval Steam Turbine Co, Trenton, N J
Gardner-Denver Co, Quincy, Ill
Gelber, Sam S, Co, Chicago, Ill
Lawrence Machine & Pump Corp, Lawrence, Mass
Morris Machine Wks, Baldwinsville, N Y

PUMPS, SLURRY

Aurora Pump Co, 115 Loucks St, Aurora, Ill — Aurora 2-4381
Denver Equipment Co, 1400 17 St, Denver, Col — Cherry 4466
Dorr Co, Barry Place, Stamford, Conn — Stamford 4-1151
Jabsco Pump Co, 2031 N Lincoln St, Burbank, Calif — Stanley 7-3381
Milton Roy Co, 1382 E Mermaid Lane, Phila, Pa — Wissahickon 7-8000
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461
Shriver, T. & Co, Inc, 874 Hamilton St, Harrison, N J — Harrison 6-2140
Wilfley, A R. & Sons, Inc, Denham Bldg, Denver, Colo — Main 3204

Amer Manganese Steel Div, Chicago Hghts, Ill
Bowser, Inc, Fort Wayne, Ind
Lawrence Machine & Pump Corp, Lawrence, Mass
Morris Machine Wks, Baldwinsville, N Y
Proportioneers Inc, Providence, R I

PUMPS, STEAM

Gardner-Denver Co, Quincy, Ill

PUMPS, STEAM JACKETED

Blackmer Pump Co, 1910 Century Av, S W, Grand Rapids, Mich — 5-9211

Foster Pump Wks, Inc, Bklyn, N Y
Lawrence Machine & Pump Corp, Lawrence, Mass

PUMPS, SUCTION

Aurora Pump Co, 115 Loucks St, Aurora, Ill — Aurora 2-4381
Denver Equipment Co, 1400 17 St, Denver, Col — Cherry 4466
Dorr Co, Barry Place, Stamford, Conn — Stamford 4-1151
Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn — Norwalk 6-3351

Waterous Co, St Paul, Minn

PUMPS, SUMP

Aurora Pump Co, 115 Loucks St, Aurora, Ill — Aurora 2-4381
Jabsco Pump Co, 2031 N Lincoln St, Burbank, Calif — Stanley 7-3381
La Bour Co, Inc, Elkhart, Ind — 3518
Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn — Norwalk 6-3351
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461

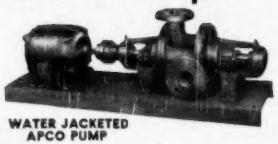
Amer Manganese Steel Div, Chicago Hghts, Ill
Gelber, Sam S, Co, Chicago, Ill
Goulds Pumps Inc, Seneca Falls, N Y
Portable Pump Co, St Louis, Mo

PUMPS, TURBINE

Aurora Pump Co, 115 Loucks St, Aurora, Ill — Aurora 2-4381

De Laval Steam Turbine Co, Trenton, N J

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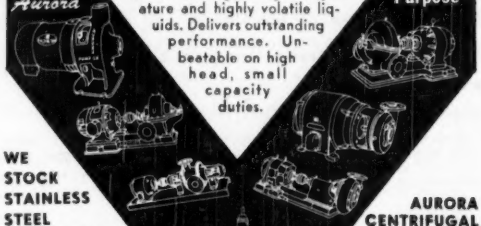


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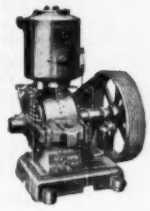
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PUMPS, VACUUM

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Beach-Russ Co, 44 Church St, N Y — Cortlandt 7-1115
Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326

Non-Advertisers Street Addresses—See Pages 613-618

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Rotary — Positive
Vacuum to 10 Microns
Capacities, 1 to 850 c.f.m.
For dry or wet vacuum

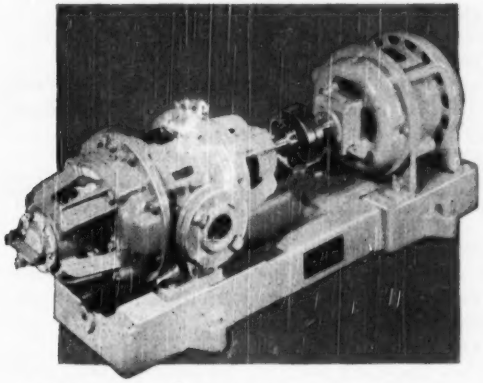
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Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

Central Scientific Co, Chicago, Ill
Foster Pump Wks, Inc, Bklyn, N Y
Gardner-Denver Co, Quincy, Ill
Natl Research Corp, Eng Div,
Pennsylvania Pump & Compressor Co, Easton, Pa,
Stokes Machine Co, Phila, Pa
Welch, Wm M, Mfg Co, Chicago, Ill
Wheeler, C H, Mfg Co, Phila, Pa



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Nash Eng Co, 203 Wilson Rd, South Norwalk, Conn — Norwalk 6-3351
Scientific Glass Apparatus Co, Inc, Bloomfield, N J — Bloomfield 2-7200

PUMPS, VACUUM STONEWARE

Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100

PUMPS, VERTICAL CENTRIFUGAL

Aurora Pump Co, 115 Loucks St, Aurora, Ill — Aurora 2-4381
La Bour Co, Inc, Elkhart, Ind — 3518

De Laval Steam Turbine Co, Trenton, N J
Gelber, Sam B, Co, Chicago, Ill
Goulds Pumps Inc, Seneca Falls, N Y
Lawrence Machine & Pump Corp, Lawrence, Mass
Lewis, Charles S. & Co, St, Louis, Mo
Morris Machine Wks, Baldwinsville, N Y

PUMPS, VOLUTE

Aurora Pump Co, 115 Loucks St, Aurora, Ill — Aurora 2-4381
De Laval Steam Turbine Co, Trenton, N J

PYROMETERS

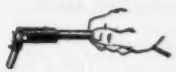
Bailey Meter Co, 1054 Ivanhoe Rd, Cleveland, O — Glenville 1-4600
Cambridge Instrument Co, Inc, Grand Central Terminal Bldg, N Y — Murray Hill 6-0335
Electric Hotpack Co, Inc, 5035 Cottman Av, Phila, Pa — Devonshire 3-1700
Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660

Hoskins Mfg Co, Detroit, Mich
Illinois Testing Lab, Inc, Chicago, Ill
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Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

Ferner, R Y, Co, Inc, Boston, Mass
Hanovia Chem & Mfg Co, Newark, N J
New England Quartz Co of N Y, N Y

QUARTZ, FUSED

Corning Glass Wks, Corning, N Y — 372
Hanovia Chem & Mfg Co, Newark, N J

REACTORS

Allied Steel & Equipment Co, Chester, N J — Chester 141
Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass — Waltham 5-6800
Buffovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100

Autoclave Engrs, Erie, Pa
Chemsteel Construction Co, Inc, Pittsburgh, Pa
Gen Amer Transportation Corp, Chicago, Ill
Glascote Prods Inc, Cleveland, O
Industrial Engrs, Newark, N J
Kellogg, M W, Co, N Y
Lummus Co, N Y
Pfaudler Co, Rochester, N Y

RECLAIMERS, WASTE HEAT

Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820
Whitlock Mfg Co, 74 South St, Hartford, Conn — Hartford 2-4295

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Cambridge Instrument Co, Inc, Grand Central Terminal Bldg, N Y — Murray Hill 6-0335
Leeds & Northrup Co, Phila, Pa
Uehling Instrument Co, Paterson, N J

RECORDERS, CONDUCTIVITY

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Industrial Instruments, Inc, Jersey City, N J
Leeds & Northrup Co, Phila, Pa

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Mine Safety Appliances Co, Pittsburgh, Pa
Natl Technical Labs, S Pasadena, Calif

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Tenney Eng Inc, Newark, N J

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Taylor Instrument Co, Rochester, N Y
Uehling Instrument Co, Paterson, N J

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Bailey Meter Co, 1054 Ivanhoe Rd, Cleveland, O — Glenville 1-4600
Distillation Prods Industries Div, Eastman Kodak Co, Rochester, N Y — Glenwood 1877

RECORDERS, PRESSURE (cont'd)

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Taylor Instrument Co, Rochester, N Y

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Bailey Meter Co, 1054 Ivanhoe Rd, Cleveland, O — Glenville 1-4600

RECORDERS, SPECIFIC GRAVITY

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RECORDERS, TEMPERATURE

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Bailey Meter Co, 1054 Ivanhoe Rd, Cleveland, O — Glenville 1-4600

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Palmer Thermometers, Inc, Cincinnati, O
Taylor Instrument Co, Rochester, N Y
Tenney Eng Inc, Newark, N J
Weston Electrical Instrument Corp, Newark, N J

REDUCERS, SPEED

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Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Denver Equipment Co, 1400 17 St, Denver, Col — Cherry 4466
Link-Belt Co, 2045 W Hunting Park Av, Phila, Pa — Radcliff 5-6000

Falk Corp, Milwaukee, Wisc

REFINERY EQUIPMENT

Airetool Mfg Co, 362 S Center St, Springfield, O — 3-4989
Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130

Gen Amer Transportation Corp, Chicago, Ill
Koch Eng Co, Inc, Wichita, Kansas
Koven, L O, & Bros, Inc, Jersey City, N J
Lummus Co, N Y

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Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

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Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

Carborundum Co, Perth Amboy, N J
Dixon, Joseph, Crucible Co, Jersey City, N J
Kellogg, M W, Co, N Y
N Amer Refractories Co, Cleveland, O
Pacific Clay Prods, Los Angeles, Calif

REFRIGERATING EQUIPMENT

Aaron Equipment Co, 1347 S Ashland Av, Chicago, Ill — Chesapeake 3-5300
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Davis Engineering Corp, 1064 E Grand St, Elizabeth, N J — Elizabeth 2-6780
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
Whitlock Mfg Co, 74 South St, Hartford, Conn — Hartford 2-4295

Carrier Corp, Syracuse, N Y
Curtis Mfg Co, St Louis, Mo
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REGULATORS, FEED WATER

Bailey Meter Co, 1054 Ivanhoe Rd, Cleveland, O — Glenville 1-4600

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Linde Air Prods Co, N Y

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Bailey Meter Co, 1054 Ivanhoe Rd, Cleveland, O — Glenville 1-4600
Gen Controls Co, 801 Allen Av, Glendale, Calif
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Mercoid Corp, 4201 Belmont Av, Chicago, Ill — Pensacola 6-2100

REGULATORS, PRESSURE (cont'd)

Black, Sivalls & Bryson, Inc, Tulsa, Okla
Kaye & MacDonald, Inc, West Orange, N J
Keckley, O C, Co, Chicago, Ill
Spence Eng Co Inc, Walden, N Y
Strong, Carlisle & Hammond Co, Cleveland, O

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Bailey Meter Co, 1054 Ivanhoe Rd, Cleveland, O — Glenville 1-4600
Gen Controls Co, 801 Allen Av, Glendale, Calif
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Mercoid Corp, 4201 Belmont Av, Chicago, Ill — Pensacola 6-2100

Kaye & MacDonald, Inc, West Orange, N J
Keckley, O C, Co, Chicago, Ill
Sarco Co, Inc, N Y
Spence Eng Co Inc, Walden, N Y

RELAYS, ELECTRIC

Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Mercoid Corp, 4201 Belmont Av, Chicago, Ill — Pensacola 6-2100

Automatic Switch Co, Orange, N J
Weston Electrical Instrument Corp, Newark, N J

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Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Mercoid Corp, 4201 Belmont Av, Chicago, Ill — Pensacola 6-2100

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Mine Safety Appliances Co, Pittsburgh, Pa
Willson Prods Inc, Reading, Pa

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Blickman, S, Inc, 3100 Gregory Av, Weehawken, N J — Union 3-0300
Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100

RHEOSTATS

Enthone Inc, New Haven, Conn

RINGS, RASCHIG

Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100
Illinois Electric Porcelain Co, Macomb, Ill — 51
Scientific Glass Apparatus Co, Inc, Bloomfield, N J — Bloomfield 2-7200

Metallogasket Co, New Brunswick, N J

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Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900

Consolidated Siphon Supply Co, N Y
Kiefer, Karl, Machine Co, Cincinnati, O
U S Bottlers Machine Co, Chicago, Ill

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First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900

ROASTING MACHINES

Colorado Iron Wks Co, Denver, Colo

ROD & TUBE, EXTRUDED

Colonial Alloys Co, Phila, Pa
Plax Corp, Hartford, Conn

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Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600

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ROTAMETERS

Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Jacoby-Tarbox Corp, 810 Nepperhan Av, Yonkers, N Y — Yonkers 5-8400
Commercial Research Lab, Inc, Detroit, Mich — Schutte & Koerting Co, Phila, Pa

SAMPLERS, AUTOMATIC

Sturtevant Mill Co, 8 Harrison Sq, Boston, Mass — Talbot 5-6500

SAND BLAST EQUIPMENT

Sly, W W, Mfg Co, Cleveland, O

SCALES

Aaron Equipment Co, 1347 S Ashland Av, Chicago, Ill — Chesapeake 3-5300
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
Christian Becker Inc, Clifton, N J — Richardson Scale Co, Clifton, N J
Colloid Equipt Co, Inc, N Y — Toledo Scale Co, Toledo, O
Exact Weight Scale Co, Columbus, O — Torsion Balance Co, Clifton, N J
Fairbanks Morse & Co, Chicago, Ill — Yale & Towne Mfg Co, Phila, Pa

SCALES, AUTOMATIC

Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Gump, B F, Co, 1347 S Cicero Av, Chicago, Ill — Bishop 2-3050
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
Exact Weight Scale Co, Columbus, O — Toledo Scale Co, Toledo, O
Richardson Scale Co, Clifton, N J — Triangle Package Machy Co, Chicago, Ill

SCALES, BAG FILLING

Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Gump, B F, Co, 1347 S Cicero Av, Chicago, Ill — Bishop 2-3050
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
Exact Weight Scale Co, Columbus, O — Triangle Package Machy Co, Chicago, Ill
Richardson Scale Co, Clifton, N J

SCALES, BARREL FILLING

Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Exact Weight Scale Co, Columbus, O — Yale & Towne Mfg Co, Phila, Pa

SCALES, BUILT-IN

Aaron Equipment Co, 1347 S Ashland Av, Chicago, Ill — Chesapeake 3-5300
Toledo Scale Co, Toledo, O

SCALES, BULK

Richardson Scale Co, Clifton, N J

SCALES, CONTINUOUS WEIGHING

Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
Exact Weight Scale Co, Columbus, O — Richardson Scale Co, Clifton, N J
Omega Machine Co, Providence, R I

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Exact Weight Scale Co, Columbus, O — Yale & Towne Mfg Co, Phila, Pa
Toledo Scale Co, Toledo, O

SCALES, HOPPER

Exact Weight Scale Co, Columbus, O — Toledo Scale Co, Toledo, O
Richardson Scale Co, Clifton, N J

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Merrick Scale Mfg Co, Passaic, N J

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Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Los Angeles Chem Co, 1960 Santa Fe Av, Los Angeles, Calif — Tucker 2421
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761
Central Scientific Co, Chicago, Ill — Toledo Scale Co, Toledo, O
Exact Weight Scale Co, Columbus, O

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Merrick Scale Mfg Co, Passaic, N J — Vol-U-Meter Co, Buffalo, N Y

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Exact Weight Scale Co, Columbus, O

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Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Exact Weight Scale Co, Columbus, O — Toledo Scale Co, Toledo, O
Richardson Scale Co, Clifton, N J

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Exact Weight Scale Co, Columbus, O — Omega Machine Co, Providence, R I
Merrick Scale Mfg Co, Passaic, N J — Richardson Scale Co, Clifton, N J

SCALES, RECORDING

Merrick Scale Mfg Co, Passaic, N J — Toledo Scale Co, Toledo, O
Richardson Scale Co, Clifton, N J

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Merrick Scale Mfg Co, Passaic, N J — Yale & Towne Mfg Co, Phila, Pa

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Denver Equipment Co, 1400 17 St, Denver, Col — Cherry 4466
Link-Belt Co, 300 W Pershing Rd, Chicago Ill — Boulevard 8-8100
Murray, D J, Mfg Co, 1002-1024 3 St, Wausau, Wisc — 4086
Korb-Pettit Wire Fabrics & Iron Wks, Inc, Phila, Pa

SCREENS, CYLINDRICAL

Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250
York, Otto H, Co, Inc, 69 Glenwood Pl, E Orange, N J — Orange 4-2000

SCREENS, FILTER

Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Michigan Wire Cloth Co, 2055 Howard St, Detroit, Mich — Tashmoo 5-1124
York, Otto H, Co, Inc, 69 Glenwood Pl, E Orange, N J — Orange 4-2000
Multi Metal Wire Cloth Co, Inc, N Y — Newark Wire Cloth Co, Newark, N J
Natl Filter Corp, N Y

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Link-Belt Co, 300 W Pershing Rd, Chicago Ill — Boulevard 8-8100
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York, Otto H, Co, Inc, 69 Glenwood Pl, E Orange, N J — Orange 4-2000
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Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Gump, B F, Co, 1347 S Cicero Av, Chicago, Ill — Bishop 2-3050
Link-Belt Co, 300 W Pershing Rd, Chicago Ill — Boulevard 8-8100
Murray, D J, Mfg Co, 1002-1024 3 St, Wausau, Wisc — 4086
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
Productive Equipt Corp, Chicago, Ill

SCREENS, INTAKE WATER

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Sturtevant Mill Co, 8 Harrison Sq, Boston, Mass — Talbot 5-6500
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

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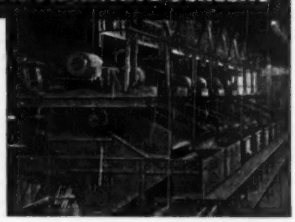
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Corning Glass Wks, Corning, N Y — 372

STOPPERS

Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660

STOPPERS, RUBBER

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

STORAGE SYSTEMS, COAL

Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300
Link-Belt Co, 300 W Pershing Rd, Chicago Ill — Boulevard 8-8100

STRAINERS, INDUSTRIAL

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Michigan Wire Cloth Co, 2055 Howard St, Detroit, Mich — Tashmoo 5-1124

Newark Wire Cloth Co, Newark, N J
Spence Eng Co Inc, Walden, N Y

STRAINERS, OIL

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Hauck Mfg Co, Bklyn, N Y
Multi Metal Wire Cloth Co, Inc, N Y
Natl Airoil Burner Co, Phila, Pa
Newark Wire Cloth Co, Newark, N J
Nugent, Wm W, & Co, Chicago, Ill

STRAINERS, PIPE LINE

Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161
Jacoby-Tarbox Corp, 810 Nepperhan Av, Yonkers, N Y — Yonkers 5-8400
Spraying Systems Co, 3201 Randolph St, Bellwood, Ill — Bellwood 380

Amer District Steam Co, N Tonawanda, N Y
Anthony Co, Long Is City, N Y
Armstrong Machine Wks, Three Rivers, Mich
Kaye & MacDonald, Inc, West Orange, N J
Multi Metal Wire Cloth Co, Inc, N Y
Nicholson, W H, & Co, Wilkes-Barre, Pa
R-S Prods Corp, Phila, Pa
Sarco Co, Inc, N Y
Strong, Carlisle & Hammond Co, Cleveland, O

STRAINERS, SUCTION

Spraying Systems Co, 3201 Randolph St, Bellwood, Ill — Bellwood 380

Amer District Steam Co, N Tonawanda, N Y
Anthony Co, Long Is City, N Y

SULFONATING EQUIPMENT

Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass — Waltham 5-6800
Buffovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600

SUMPS, STONEWARE

Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100
Knight, Maurice A, 444 Kelly Av, Akron, O — Parkway 1277

SUPERHEATERS

Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300

Edge M or Iron Co, Edge Moor, Del

SUPERHEATERS, STEAM

Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300

SWITCHBOARDS

Falstrom Co, Passaic, N J

SWITCHES

Mercoid Corp, 4201 Belmont Av, Chicago, Ill — Pensacola 6-2100

SWITCHES, MERCURY

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SWITCHES, TIME

Bradley, Allen, Co, Milwaukee, Wis
Lumenite Electronic Co, Chicago, Ill

SWITCHGEAR

Automatic Switch Co, Orange, N J
Gen Electric Co, Schenectady, N Y

TABLE TOPS, LABORATORY

Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600

Hamilton Mfg Co, Two Rivers, Wis
Kewaunee Mfg Co, Adrian, Mich

TABLET FILLING AND COUNTING MACHINES

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335

Colton, Arthur, Co, Detroit, Mich

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Allied Steel & Equipment Co, Chester, N J — Chester 141
Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
Atlas Mineral Prods Co, Mertztown, Pa — Topton 37
Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300
Blickman, S, Inc, 3100 Gregory Av, Weehawken, N J — Union 3-0300
Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100
Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250
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Pressed Steel Tank Co, 1499 South 66 St, Milwaukee, Wisc — Greenfield 6-0500

Amer Hard Rubber Co, N Y
Ampco Metal Inc, Milwaukee, Wis
Chemsteel Construction Co, Inc, Pittsburgh, Pa
Downingtown Iron Wks, Downingtown, Pa
Gen Amer Transportation Corp, Chicago, Ill
Hauser-Stander Tank Co, Cincinnati O
Heil Process Equipt Corp, Cleveland, O
Nooter Corp, St Louis, Mo
Pfaudler Co, Rochester, N Y
Woolford Wood Tank Mfg Co, Darby, Pa

TANKS, AIR

Allied Steel & Equipment Co, Chester, N J — Chester 141
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Whitlock Mfg Co, 74 South St, Hartford, Conn — Hartford 2-4295

Curtis Mfg Co, St Louis, MO
Downingtown Iron Wks, Downingtown, Pa

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Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820
Pressed Steel Tank Co, 1499 South 66 St, Milwaukee, Wisc — Greenfield 6-0500
Whitlock Mfg Co, 74 South St, Hartford, Conn — Hartford 2-4295

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Gen Amer Transportation Corp, Chicago, Ill
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Pressed Steel Tank Co, 1499 South 66 St, Milwaukee, Wisc — Greenfield 6-0500
Whitlock Mfg Co, 74 South St, Hartford, Conn — Hartford 2-4295

Downingtown Iron Wks, Downingtown, Pa
Gen Amer Transportation Corp, Chicago, Ill

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Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass — Waltham 5-6800
Blickman, S, Inc, 3100 Gregory Av, Weehawken, N J — Union 3-0300
Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820
Whitlock Mfg Co, 74 South St, Hartford, Conn — Hartford 2-4295

Amer Copper & Brass Wks, Cincinnati, O
Cleveland Coppersmithing Wks, Cleveland, O

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Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass — Waltham 5-6800
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Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820

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Hauser-Stander Tank Co, Cincinnati O
Woolford Wood Tank Mfg Co, Darby, Pa

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Allied Steel & Equipment Co, Chester, N J — Chester 141
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Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820
Pressed Steel Tank Co, 1499 South 66 St, Milwaukee, Wisc — Greenfield 6-0500
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335

Downingtown Iron Wks, Downingtown, Pa

TANKS, GLASS ENAMELED

Brill Equipment Co, 2401 3 Av, N Y — Cypress 2-5703
Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600

Glascote Prods Inc, Cleveland, O

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Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
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Glascote Prods Inc, Cleveland, O

TANKS, HARD RUBBER

Allied Steel & Equipment Co, Chester, N J — Chester 141
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820

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Luzerne Rubber Co, Trenton, N J

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Artisan Metal Prods, Inc, 73 Pond St, Waltham, Mass — Waltham 5-6800
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Blickman, S, Inc, 3100 Gregory Av, Weehawken, N J — Union 3-0300
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Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820
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Downingtown Iron Wks, Downingtown, Pa
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Nooter Corp, St Louis, Mo
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Babcock & Wilcox Co, 85 Liberty St, N Y — Barclay 7-0300
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820
Pressed Steel Tank Co, 1499 South 66 St, Milwaukee, Wisc — Greenfield 6-0500
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
Whitlock Mfg Co, 74 South St, Hartford, Conn — Hartford 2-4295

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Gen Amer Transportation Corp, Chicago, Ill

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Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820
Pressed Steel Tank Co, 1499 South 66 St, Milwaukee, Wisc — Greenfield 6-0500

Belke Mfg Co, Chicago, Ill
Gen Amer Transportation Corp, Chicago, Ill
Hauser-Stander Tank Co, Cincinnati O
Heil Process Equipt Corp, Cleveland, O
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Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820
Pressed Steel Tank Co, 1499 South 66 St, Milwaukee, Wisc — Greenfield 6-0500
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Amer Copper & Brass Wks, Cincinnati, O
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Gen Amer Transportation Corp, Chicago, Ill
Glascote Prods Inc, Cleveland, O
Lee Metal Prods Co, Philipsburg, Pa
Littleford Bros, Inc, Cincinnati, O
Nooter Corp, St Louis, Mo
Pfahler-Cleland Co, Galion, O

TANKS, NICKEL

Alsop Engineering Corp, 500 Center St, Milldale, Conn — Southington 740
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Pfahler-Cleland Co, Galion, O

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Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820
Whitlock Mfg Co, 74 South St, Hartford, Conn — Hartford 2-4295

Downingtown Iron Wks, Downingtown, Pa
Edge Moor Iron Co, Edge Moor, Del
Gen Amer Transportation Corp, Chicago, Ill
Lee Metal Prods Co, Philipsburg, Pa

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Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Kirk & Blum Mfg Co, 2858 Spring Grove Av, Cincinnati, O — Kirby 5250
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820
Whitlock Mfg Co, 74 South St, Hartford, Conn — Hartford 2-4295

Downingtown Iron Wks, Downingtown, Pa
Edge Moor Iron Co, Edge Moor, Del
Gen Amer Transportation Corp, Chicago, Ill
Glascote Prods Inc, Cleveland, O

TANKS, OIL STORAGE

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Stacey Bros Gas Const Co, Cincinnati, O
Stanhope, R C, Inc, N Y

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Gen Amer Transportation Corp, Chicago, Ill

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Industrial Filter & Pump Mfg Co, 1621 W Carroll Av, Chicago, Ill — Seeley 3-3632
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Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820

Amer Hard Rubber Co, N Y
Belke Mfg Co, Chicago, Ill
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Buflovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Patterson-Kelley Co, 112 Warren St, E Stroudsburg, Pa — East Stroudsburg 820
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Consolidated Siphon Supply Co, N Y
Downingtown Iron Wks, Downingtown, Pa
Edge Moor Iron Co, Edge Moor, Del
Gen Amer Transportation Corp, Chicago, Ill
Lee Metal Prods Co, Philipsburg, Pa
Littleford Bros, Inc, Cincinnati, O
Perry Equipt Corp, Phila, Pa
Pfahler-Cleland Co, Galion, O
Stacey Bros Gas Const Co, Cincinnati, O

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Knight, Maurice A, 444 Kelly Av, Akron, O — Parkway 1277

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International Selling Corp, 70 Pine St, N Y — Whitehall 4-7490
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Pressed Steel Tank Co, 1499 South 66 St, Milwaukee, Wisc — Greenfield 6-0500

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Downingtown Iron Wks, Downingtown, Pa
Gen Amer Transportation Corp, Chicago, Ill
Littleford Bros, Inc, Cincinnati, O
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Woolford Wood Tank Mfg Co, Darby, Pa

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Woolford Wood Tank Mfg Co, Darby, Pa

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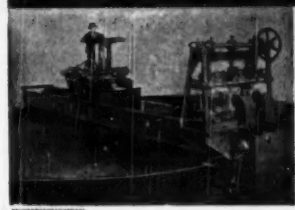
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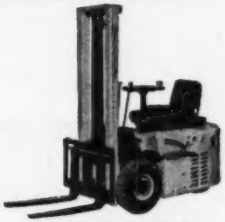
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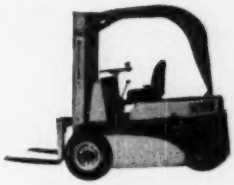
Lift Trucks





HYSTER 20

Capacity — 2000 pounds
Width — 37 inches
Length — 71 inches (less forks)



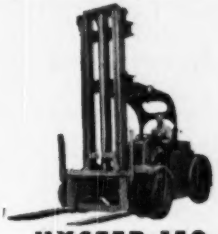
HYSTER 40

Capacity — 4000 pounds
Width — 42 inches
Length — 86 inches (less forks)



HYSTER 75

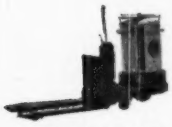
Capacity — 7500 pounds
Width — 60 inches
Length — 117½ inches (less forks)



HYSTER 150

Capacity — 15,000 pounds
Width — 86 inches
Length — 148 inches (less forks)

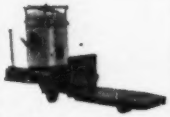
HYSTER *Salsbury* TURRET TRUCKS



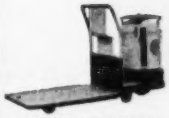
PALLET TRUCK
Capacity — 4000 pounds
Width — 35 inches
Length — 86 in. and 110 in.



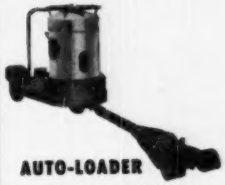
TUG
Towing cap. — 20,000 lbs.
Width — 42 inches
Length — 62 inches



PLATFORM TRUCK
Capacity — 4000 pounds
Width — 35 inches
Length — 97 in. and 115 in.

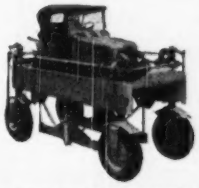


CARGO TRUCK
Capacity — 4000 pounds
Width — 42 inches
Length — 103½ inches



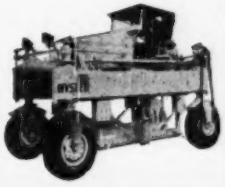
AUTO-LOADER
Towing cap. — 20,000 lbs.
Width — 20 inches
Length — 135 inches

Straddle Trucks



M STRADDLE TRUCK

Capacity — 18,000 lbs.
Width — 78½ in. and 90½ in.
Length — 176 inches



MH STRADDLE TRUCK

Capacity — 30,000 pounds
Width — 90 in. and 100 in.
Length — 190½ inches

MOBILE CRANE

HYSTER
KARRY
KRANE



Capacity — 10,000 pounds
Width — 75 inches
Length — 152 inches

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Builders-Providence, Inc, Providence, R I

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Stacey Bros Gas Const Co, Cincinnati, O

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Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Jacoby-Tarbox Corp, 810 Nepperhan Av, Yonkers, N Y — Yonkers 5-8400
Standard Science & Supply Co, 1234 N Paulina St, Chicago, Ill — Arm 6-8737
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

Owens-Illinois Glass Co, Toledo, O

TUBING GLASS, PRECISION BORE

Corning Glass Wks, Corning, N Y — 372
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Scientific Glass Apparatus Co, Inc, Bloomfield, N J — Bloomfield 2-7200

TUBING, HARD RUBBER

Luzerne Rubber Co, Trenton, N J

TUBING, NICKEL ALLOY

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Haynes Stellite Div, Union Carbide & Carbon Corp, Kokomo, Ind

Babcock & Wilcox Tube Co, Beaver Falls, Pa
Bishop, J, & Co, Malvern, Pa
Revere Copper & Brass Inc, N Y

TUBING, PLASTIC

Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660

Plax Corp, Hartford, Conn

TUBING, SARAN

Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660

TUBING, SEAMLESS

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900

Babcock & Wilcox Tube Co, Beaver Falls, Pa
Kenzico Tube Co, Inc, Mt Kisco, N Y
Revere Copper & Brass Inc, N Y
Bishop, J, & Co, Malvern, Pa

TUBING, STAINLESS

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Republic Steel Corp, Republic Bldg, Cleveland, O — Prospect 1-1400

Allegheny Ludlum Steel Corp, Pittsburgh, Pa
Bishop, J, & Co, Malvern, Pa
Carpenter Steel Co, Reading, Pa
Babcock & Wilcox Tube Co, Beaver Falls, Pa
Cherry-Burrell Corp, Chicago, Ill

TUBING, STONEWARE

Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100

TURBINES, STEAM

De Laval Steam Turbine Co, Trenton, N J

TURNTABLES

Revolrator Co, North Bergen, N J

UNLOADERS, CAR

Flexoveyor Mfg Co, 1220 S Acoma St, Denver, Colo — Race 0805
Hyster Co, 2902-91 N E Clackamas, Portland, Ore
Link-Belt Co, 300 W Pershing Rd, Chicago Ill — Boulevard 8-8100

Brady Conveyors Corp, Chicago, Ill
Stephens-Adamson Mfg Co, Aurora, Ill
Stearns Magnetic Mfg Co, Milwaukee, Wis

UNLOADERS, VIBRATING CAR

Link-Belt Co, 300 W Pershing Rd, Chicago Ill — Boulevard 8-8100

Robins Conveyors Div, Passaic, N J

VALVES

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544
Chapman Valve Mfg Co, Indian Orchard, Mass — Springfield 8331
Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100
Golden-Anderson Valve Specialty Co, 207 Keenan Bldg, Pittsburgh, Pa — Atlantic 1-5946
Mercoid Corp, 4201 Belmont Av, Chicago, Ill — Pensacola 6-2100
Murray, D J, Mfg Co, 1002-1024 3 St, Wausau, Wisc — 4086

Alloy Steel Prods Co, Inc, Linden, N J
Automatic Switch Co, Orange, N J
Cooper Alloy Fdry Co, Hillside, N J
Darling Valve & Mfg Co, Williamsport, Pa
Frick Co, Waynesboro, Pa
Nugent, Wm W, & Co, Chicago, Ill
Pioneer Alloy Prods Co Inc, Cleveland, O
Rockwell, W S, Co, Fairfield, Conn
Rockwell Mfg Co, Pittsburgh, Pa
Schutte & Koerting Co, Phila, Pa
Taylor Instrument Co, Rochester, N Y



VALVES, ACID RESISTING

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544
Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100
National Carbon Div, Union Carbide & Carbon Corp, 30 E 42 St, N Y — Murray Hill 7-8000

Amer Hard Rubber Co, N Y
Ampco Metal Inc, Milwaukee, Wis
Cooper Alloy Fdry Co, Hillside, N J
Darling Valve & Mfg Co, Williamsport, Pa
Dezurik Shower Co, Sartell, Minn
Emmett Machine & Mfg Inc, Akron, O
Pioneer Alloy Prods Co Inc, Cleveland, O
Rockwell, W S, Co, Fairfield, Conn

VALVES, ALLOY STEEL

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544

Darling Valve & Mfg Co, Williamsport, Pa
Pioneer Alloy Prods Co Inc, Cleveland, O
Rockwell, W S, Co, Fairfield, Conn
Rockwell Mfg Co, Pittsburgh, Pa

VALVES, ALUMINUM ALLOY

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544

Dezurik Shower Co, Sartell, Minn

VALVES, AUTOMATIC

Golden-Anderson Valve Specialty Co, 207 Keenan Bldg, Pittsburgh, Pa — Atlantic 1-5946

Automatic Switch Co, Orange, N J
R-S Prods Corp, Phila, Pa
Western Precipitation Corp, Los Angeles, Calif

VALVES, BACK PRESSURE

Black, Sivalls & Bryson, Inc, Tulsa, Okla

VALVES, BLOWOFF

Murray, D J, Mfg Co, 1002-1024 3 St, Wausau, Wisc — 4086

VALVES, BUTTERFLY

R-S Prods Corp, Phila, Pa
Rockwell, W S, Co, Fairfield, Conn

VALVES, BYPASS

Gen Controls Co, 801 Allen Av, Glendale, Calif

Minneapolis Honeywell Regulator Co, Phila, Pa

VALVES, CHECK

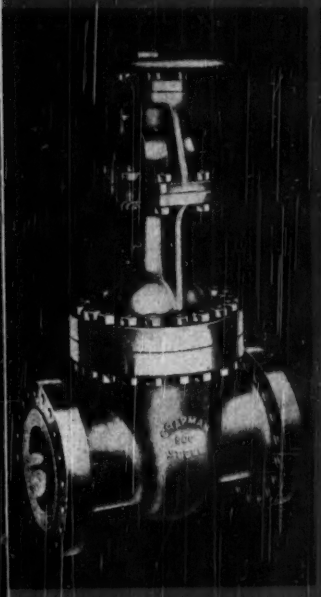
Chapman Valve Mfg Co, Indian Orchard, Mass — Springfield 8331
Golden-Anderson Valve Specialty Co, 207 Keenan Bldg, Pittsburgh, Pa — Atlantic 1-5946

Alloy Steel Prods Co, Inc, Linden, N J
Darling Valve & Mfg Co, Williamsport, Pa
Parker Appliance Co, Cleveland, O
R-P & C Valve Div, Reading, Pa

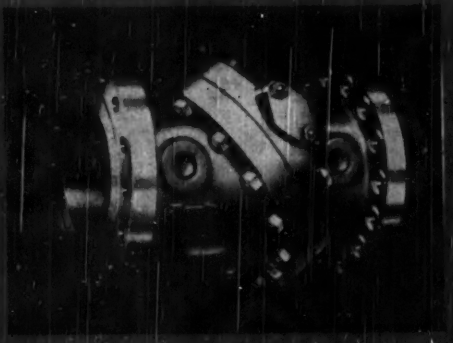
Non-Advertisers Street Addresses—See Pages 613-618

CHAPMAN VALVES

for All New Chemical Processes



(A) Non-Rising Stem-Outside Screw and Yoke Valve, 4-way pattern, flanged ends and flanged bonnet, 10" size. Body...



(B) 150-lb. Solid Wedge Steel Gate Valve, A.S.A. and A.P.I. Ratings.

(C) Alloy and Stainless Steel Globe Valve (4" to 2") with super-hardened seat and wedge.

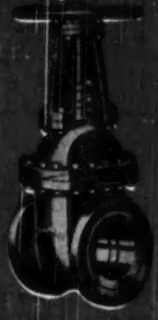




In the development of all today's widely used chemical processes . . . including production of synthetic rubbers . . . Chapman has been one of the chief reliances of the industry in meeting new requirements for valves. Shown here are a few Chapman Valves, developed for special requirements, which are now included in Chapman's standard line.

Through many years of experience, chemical researchists have learned that Chapman's laboratory technicians, designers, and field engineers can always be counted on for 100% co-operation . . . that Chapman has invaluable facilities for producing special alloy steels . . . and that Chapman's solid grounding of practical experience in pioneering new processes is a powerful aid to progress.

Are you taking full advantage of Chapman co-operation and "know-how"? If not, let's talk it over, and see how we can help.



(D) 150-lb. Solid Wedge Steel Gate Valve A.S.A. and A.P.I. Ratings.

(E) Cast Iron Body Double-Disc Gate Valve, rated 200 lb. pressure.

The CHAPMAN VALVE MFG. COMPANY

INDIAN ORCHARD, MASSACHUSETTS

VALVES, CONTROL ELECTRIC

Gen Controls Co, 801 Allen Av, Glendale, Calif
Rockwell, W S, Co, Fairfield, Conn

VALVES, CONTROL HYDRAULIC

Commercial Research Lab, Inc, Detroit, Mich
Dezurik Shower Co, Sartell, Minn

VALVES, CORROSION RESISTANT

Astell, John B, & Co, Inc, 90 West Bway, N Y **Cortlandt 7-7544**
Duriron Co, 450 N Findlay St, Dayton, O **Kenmore 5161**
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J **Perth Amboy 4-5100**
Alloy Steel Prods Co, Inc, Linden, N J
Dezurik Shower Co, Sartell, Minn
Emmett Machine & Mfg Inc, Akron, O
Rockwell Mfg Co, Pittsburgh, Pa

VALVES, DIAPHRAGM

Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J **Perth Amboy 4-5100**
Golden-Anderson Valve Specialty Co, 207 Keenan Bldg, Pittsburgh, Pa **Atlantic 1-5946**
Industrial Filter & Pump Mfg Co, 1621 W Carroll Av, Chicago, Ill **Seeley 3-3632**
Emmett Machine & Mfg Inc, Akron, O

VALVES, DIAPHRAGM CONTROL

Bailey Meter Co, 1054 Ivanhoe Rd, Cleveland, O **Glenville 1-4600**
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J **Perth Amboy 4-5100**
Gen Controls Co, 801 Allen Av, Glendale, Calif
Golden-Anderson Valve Specialty Co, 207 Keenan Bldg, Pittsburgh, Pa **Atlantic 1-5946**
Black, Sivalls & Bryson, Inc, Tulsa, Okla
Minneapolis Honeywell Regulator Co, Phila, Pa

VALVES, ELECTRIC

Golden-Anderson Valve Specialty Co, 207 Keenan Bldg, Pittsburgh, Pa **Atlantic 1-5946**
Automatic Switch Co, Orange, N J

VALVES, FLOAT

Golden-Anderson Valve Specialty Co, 207 Keenan Bldg, Pittsburgh, Pa **Atlantic 1-5946**
Black, Sivalls & Bryson, Inc, Tulsa, Okla
Keckley, O C, Co, Chicago, Ill
Kaye & MacDonald, Inc, West Orange, N J

VALVES, GAS REVERSING

Mercoid Corp, 4201 Belmont Av, Chicago, Ill **Pensacola 6-2100**
Rockwell Mfg Co, Pittsburgh, Pa

For further information on any product advertised in the BUYERS GUIDE, use the Readers' Service Card — on the green inserts.

VALVES, GATE

Astell, John B, & Co, Inc, 90 West Bway, N Y **Cortlandt 7-7544**
Chapman Valve Mfg Co, Indian Orchard, Mass **Springfield 8331**
Murray, D J, Mfg Co, 1002-1024 3 St, Wausau, Wisc **4086**
Alloy Steel Prods Co, Inc, Linden, N J
Clow, James E, & Sons, Chicago, Ill
Darling Valve & Mfg Co, Williamsport, Pa
Pioneer Alloy Prods Co Inc, Cleveland, O
Rockwell, W S, Co, Fairfield, Conn

VALVES, GATE, ROTARY

Link-Belt Co, 300 W Pershing Rd, Chicago Ill **Boulevard 8-8100**

VALVES, GLASS

Corning Glass Wks, Corning, N Y **372**
Greiner, Emil, Co, 20-26 N Moore St, N Y **Digby 9-0660**

VALVES, GLOBE

Astell, John B, & Co, Inc, 90 West Bway, N Y **Cortlandt 7-7544**
Chapman Valve Mfg Co, Indian Orchard, Mass **Springfield 8331**
Golden-Anderson Valve Specialty Co, 207 Keenan Bldg, Pittsburgh, Pa **Atlantic 1-5946**
Alloy Steel Prods Co, Inc, Linden, N J
Jerguson Gage & Valve, Somerville, Mass

VALVES, HARD RUBBER

Amer Hard Rubber Co, N Y
Luzerne Rubber Co, Trenton, N J

VALVES, HIGH PRESSURE (Cylinders)

Chapman Valve Mfg Co, Indian Orchard, Mass **Springfield 8331**
Amer Instrument Co, Inc, Silver Springs, Md
Emmett Machine & Mfg Inc, Akron, O
Linde Air Prods Co, N Y

VALVES, JACKETED

Jerguson Gage & Valve, Somerville, Mass

VALVES, LEVER OPERATED

Gen Controls Co, 801 Allen Av, Glendale, Calif
Mercoid Corp, 4201 Belmont Av, Chicago, Ill **Pensacola 6-2100**
Black, Sivalls & Bryson, Inc, Tulsa, Okla
Darling Valve & Mfg Co, Williamsport, Pa
Dezurik Shower Co, Sartell, Minn
Rockwell, W S, Co, Fairfield, Conn
Rockwell Mfg Co, Pittsburgh, Pa

VALVES, LUBRICATED PLUG

Duriron Co, 450 N Findlay St, Dayton, O **Kenmore 5161**
Rockwell Mfg Co, Pittsburgh, Pa

VALVES, MOTOR OPERATED

Chapman Valve Mfg Co, Indian Orchard, Mass **Springfield 8331**
Gen Controls Co, 801 Allen Av, Glendale, Calif
Mercoid Corp, 4201 Belmont Av, Chicago, Ill **Pensacola 6-2100**
Clow, James E, & Sons, Chicago, Ill
Darling Valve & Mfg Co, Williamsport, Pa
Keckley, O C, Co, Chicago, Ill
R-S Prods Corp, Phila, Pa
Rockwell Mfg Co, Pittsburgh, Pa
Western Precipitation Corp, Los Angeles, Calif

VALVES, NEEDLE

Astell, John B, & Co, Inc, 90 West Bway, N Y **Cortlandt 7-7544**
Alloy Steel Prods Co, Inc, Linden, N J
Autoclave Engrs, Erie, Pa
Nugent, Wm W, & Co, Chicago, Ill
Parr Instrument Co, Moline, Ill

VALVES, PACKLESS

Duriron Co, 450 N Findlay St, Dayton, O **Kenmore 5161**
Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa **Express 1-1330**
Gen Controls Co, 801 Allen Av, Glendale, Calif
Automatic Switch Co, Orange, N J
Natl Research Corp, Eng Div, Cambridge, Mass

VALVES, PILOT

Gen Controls Co, 801 Allen Av, Glendale, Calif

VALVES, PLUG

Chapman Valve Mfg Co, Indian Orchard, Mass **Springfield 8331**
Duriron Co, 450 N Findlay St, Dayton, O **Kenmore 5161**
Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J **Perth Amboy 4-5100**
Blaw-Knox Div, Pittsburgh, Pa
Dezurik Shower Co, Sartell, Minn

VALVES, PORCELAIN

Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J **Perth Amboy 4-5100**
Illinois Electric Porcelain Co, Macomb, Ill **51**
Emmett Machine & Mfg Inc, Akron, O

VALVES, QUICK OPENING

Chapman Valve Mfg Co, Indian Orchard, Mass **Springfield 8331**
Duriron Co, 450 N Findlay St, Dayton, O **Kenmore 5161**
Murray, D J, Mfg Co, 1002-1024 3 St, Wausau, Wisc **4086**
Dezurik Shower Co, Sartell, Minn
R-S Prods Corp, Phila, Pa

VALVES, RADIATOR

Marsh, Jas P, Corp, Skokie, Ill

VALVES, REDUCING

Golden-Anderson Valve Specialty Co, 207 Keenan Bldg, Pittsburgh, Pa **Atlantic 1-5946**
Black, Sivalls & Bryson, Inc, Tulsa, Okla
Kaye & MacDonald, Inc, West Orange, N J
Keckley, O C, Co, Chicago, Ill
Strong, Carlisle & Hammond Co, Cleveland, O

VALVES, REGULATING

Gen Controls Co, 801 Allen Av, Glendale, Calif
Golden-Anderson Valve Specialty Co, 207 Keenan Bldg, Pittsburgh, Pa **Atlantic 1-5946**
Black, Sivalls & Bryson, Inc, Tulsa, Okla
Keckley, O C, Co, Chicago, Ill
Spence Eng Co Inc, Walden, N Y
Strong, Carlisle & Hammond Co, Cleveland, O

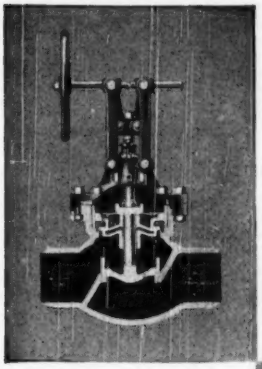
VALVES, RELIEF

Golden-Anderson Valve Specialty Co, 207 Keenan Bldg, Pittsburgh, Pa **Atlantic 1-5946**
Keckley, O C, Co, Chicago, Ill

VALVES, RUBBER LINED

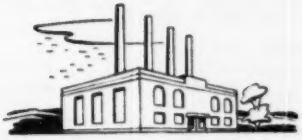
Industrial Filter & Pump Mfg Co, 1621 W Carroll Av, Chicago, Ill **Seeley 3-3632**
Amer Hard Rubber Co, N Y
Darling Valve & Mfg Co, Williamsport, Pa
Dezurik Shower Co, Sartell, Minn
R-S Prods Corp, Phila, Pa

Non-Advertisers Street Addresses—See Pages 613-618

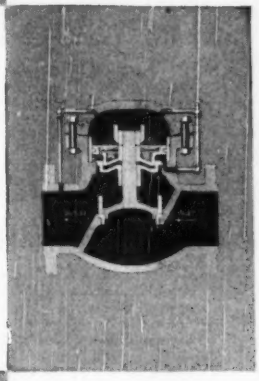


G-A double-cushioned single-acting non-return valve, toggle yoke assembly, globe pattern.

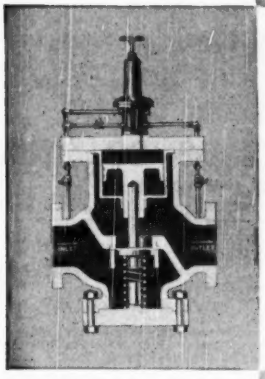
Your best PROTECTION against sudden shock, "hammer" and costly damage



GOLDEN-ANDERSON Automatic Cushioned *Steam plant* VALVES



G-A double-cushioned check valve, globe pattern.

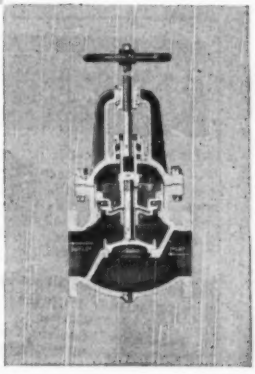


Golden-Anderson Valves have proven efficiency, quality and dependability for over 35 years in the tough applications put to them by America's industrial and power plants. The cushioning arrangement in all G-A valves permits them to operate smoothly at all times.

Golden-Anderson designs and builds over 1500 types and sizes of valves for engineered protection and high pressure installations. Let our experienced engineers help you on your next valve problem.

GOLDEN-ANDERSON *Valve* SPECIALTY COMPANY
2070 Keenan Building · Pittsburgh 22, Pa.

G-A cushioned unloading valve, globe pattern.



G-A combined throttle and automatic engine stop valve, globe pattern.

GA
LIFE AND PROPERTY PROTECTION
VALVES
FOR OVER 50 YEARS

VALVES, SAFETY

Gen Controls Co, 801 Allen Av, Glendale, Calif
Keckley, O C, Co, Chicago, Ill — Mahr Mfg Co, Minneapolis, Minn

VALVES, SANITARY

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544
Filter Paper Co, 2442 S Michigan Av, Chicago, Ill — Calumet 5-8900
Gen Controls Co, 801 Allen Av, Glendale, Calif
Alloy Prods Corp, Waukesha, Wis

VALVES, SOLENOID

Gen Controls Co, 801 Allen Av, Glendale, Calif
Golden-Anderson Valve Specialty Co, 207 Keenan Bldg, Pittsburgh, Pa — Atlantic 1-5946
Automatic Switch Co, Orange, N J
Frick Co, Waynesboro, Pa
Keckley, O C, Co, Chicago, Ill
Marsh, Jas P, Corp, Skokie, Ill
R-S Prods Corp, Phila, Pa

VALVES, STEAM JACKETED

Alloy Steel Prods Co, Inc, Linden, N J
Jerguson Gage & Valve, Somerville, Mass
Rockwell Mfg Co, Pittsburgh, Pa

VALVES, STEEL

Darling Valve & Mfg Co, Williamsport, Pa
R-P & C Valve Div, Reading, Pa
Rockwell Mfg Co, Pittsburgh, Pa
Vogt, Henry, Mach Co Inc, Louisville, Ky

VALVES, STEEL, STAINLESS

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544
Gen Controls Co, 801 Allen Av, Glendale, Calif
Duriron Co, 450 N Findlay St, Dayton, O — Kenmore 5161
Jacoby-Tarbox Corp, 810 Nepperhan Av, Yonkers, N Y — Yonkers 5-8400
Alloy Steel Prods Co, Inc, Linden, N J
Autoclave Engrs, Erie, Pa
Cooper Alloy Fdry Co, Hillside, N J
Darling Valve & Mfg Co, Williamsport, Pa
Dezurik Shower Co, Sartell, Minn
Pioneer Alloy Prods Co Inc, Cleveland, O
Rockwell Mfg Co, Pittsburgh, Pa

VALVES, STONEWARE

Knight, Maurice A, 444 Kelly Av, Akron, O — Parkway 1277

VALVES, Y STYLE

Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100
Alloy Steel Prods Co, Inc, Linden, N J

VIBRATORS

Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Sturtevant Mill Co, 8 Harrison Sq, Boston, Mass — Talbot 5-6500
All Amer Tool & Mfg Co, Chicago, Ill
Syntron Co, Homer City, Pa

VISCOSIMETERS

Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Scientific Glass Apparatus Co, Inc, Bloomfield, N J — Bloomfield 2-7200
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761
Gardner, Henry A, Lab, Inc, Bethesda, Md
Tenney Eng Inc, Newark, N J
Vol-U-Meter Co, Buffalo, N Y

VULCANIZERS

Buffovak Equipment Div, Blaw-Knox Co, 1579 Fillmore Av, Buffalo, N Y — Fillmore 2100
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Blaw-Knox Div, Pittsburgh, Pa

WASHERS, AIR

Gen Ceramics & Steatite Corp, Chem Equipt Div, Keasbey, N J — Perth Amboy 4-5100
Knight, Maurice A, 444 Kelly Av, Akron, O — Parkway 1277
Carrier Corp, Syracuse, N Y

WASHERS, BOTTLE

Chem & Process Machinery Corp, 146 Grand St, N Y — Worth 4-8130
Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
Natl Filter Corp, N Y
Ogden Filter Co, Los Angeles, Calif
U S Bottlers Machine Co, Chicago, Ill

WASHERS, DRUM

Consolidated Prods Co, Inc, 13-21 Park Row, N Y — Barclay 7-0600
Emerson-Schouring Tank Co, Indianapolis, Ind
Eureka Machine Co, Cleveland, O
Vol-U-Meter Co, Buffalo, N Y

WASHERS, GAS

Knight, Maurice A, 444 Kelly Av, Akron, O — Parkway 1277

WASHERS, ORE, ROCK, CLAY, etc.

Dorr Co, Barry Place, Stamford, Conn — Stamford 4-1151
Colorado Iron Wks Co, Denver, Colo

WATER ANALYSIS EQUIPMENT—see also Equipment Water Analysis

Amer Roland Corp, 16 Hudson St, N Y — Digby 9-0170
Fisher Scientific Co, 717 Forbes St, Pittsburgh, Pa — Express 1-1330
Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Illinois Water Treatment Co, 858 Cedar St, Rockford, Ill — 2-8851
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761
Elgin Softener Corp, Elgin, Ill
Lamotte Chem Prod, Baltimore, Md
Taylor, W A, & Co, Baltimore, Md

WATER COOLING EQUIPMENT

Croll Reynolds Eng Co, 17 John St, N Y — Cortlandt 7-9233
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335

EVACTOR

STEAM JET VACUUM PUMPS

Croll-Reynolds Steam Jet Evactors are made in single, two, three, four, and five stage units for any vacuum up to a few microns absolute. More than 10,000 installations are serving all types of condensers and chemical processing units. There are no moving parts which means extreme simplicity and dependability. Constant research and development by an organization which has specialized on this equipment for over thirty years has also provided exceptional efficiency.

CHILLED WATER FOR PROCESS COOLING

Croll-Reynolds Chill-Vactor equipment uses the Evactors described above to chill water and aqueous solutions by evaporative cooling. The total capacity of Chill-Vactors installed to date is equal to over 25,000 tons of ice per day. This equipment is furnishing chilled water for air conditioning, chilled liquors for chemical process work and for chilling porous solids and wetted surfaces.

CROLL-REYNOLDS

CROLL-REYNOLDS CO., INC.

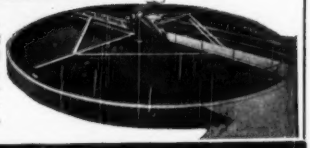
17 JOHN STREET, NEW YORK 7, N. Y.

CHILL-VACTORS STEAM JET EVACTORS CONDENSING EQUIPMENT

WATER PURIFICATION APPARATUS AND EQUIPMENT

Dorr Co, Barry Place, Stamford, Conn — Stamford 4-1151
Illinois Water Treatment Co, 858 Cedar St, Rockford, Ill — 2-8851
Bachrach, E W, & Co, Inc, Kansas City, Mo
Barnstead Still & Sterilizer Co, Inc, Boston, Mass
Elgin Softener Corp, Elgin, Ill
Griscom-Russell Co, N Y
Ogden Filter Co, Los Angeles, Calif
Proportioneers Inc, Providence, R I

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For the purification of industrial water supplies and the treatment of liquid wastes . . . Dorr Clarifiers, Dorrco Flocculators, Clariflocculators, and Hydro-Treators. Detailed information on request

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Barry Place, Stamford, Conn.

DORR

Non-Advertisers Street Addresses—See Pages 613-618

WATER SOFTENING AND PURIFYING PLANTS, etc. (Hypo-Chlorinators)

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Illinois Water Treatment Co, 858 Cedar St, Rockford, Ill — 2-8851
Industrial Filter & Pump Mfg Co, 1621 W Carroll Av, Chicago, Ill — Seeley 3-3632

Bachrach, E W, & Co, Inc, Kansas City, Mo
Elgin Softener Corp, Elgin, Ill

WEIGHING MACHINES

Gump, B F, Co, 1347 S Cicero Av, Chicago, Ill — Bishop 2-3050
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335

Exact Weight Scale Co, Columbus, O
Pneumatic Scale Corp, Ltd, Quincy, Mass
Syntron Co, Homer City, Pa
Torsion Balance Co, Clifton, N J



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Automatic Net for Packaging

Fast, accurate, automatic machines for filling and weighing a variety of materials into all types of containers.

Made in Gravity Feed Models for weighing free-flowing materials and in various sizes with weight ranges from 3 oz. up to 75 lbs. per discharge. In several types of power feed models for non-free flowing materials and in sizes with weight ranges from ¼ of 1 oz. up to 75 lbs. per discharge. Accuracy guaranteed.

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Harnischfeger Corp, Milwaukee, Wis
Lincoln Electric Co, Cleveland, O
Linde Air Prods Co, N Y

WELDING FITTINGS, CARBON STEEL

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544

WELDING FITTINGS, STAINLESS STEEL

Astell, John B, & Co, Inc, 90 West Bway, N Y — Cortlandt 7-7544
Alloy Prods Corp, Waukesha, Wis

WELDING RODS

Amer Manganese Steel Div, Chicago Hights, Ill
Arcos Corp, Phila, Pa
Bridgeport Brass Co, Bridgeport, Conn
Dixon, Joseph, Crucible Co, Jersey City, N J
Linde Air Prods Co, N Y
McKay Co, Pittsburgh, Pa
Revere Copper & Brass Inc, N Y
Wall Colmonoy Corp, Detroit, Mich

WELLS, THERMOCOUPLE

Thermo Electric Co, Fair Lawn, N J

WINCHES AND WINDLASSES

Hyster Co, 2902-91 N E Clackamas, Portland, Ore
Link-Belt Co, 2410 W 18 St, Chicago, Ill — Canal 6-2400
Robbins & Myers, Inc, 1345 Lagonda Av, Springfield, O — 3-6461
Yale & Towne Mfg Co, Phila, Pa

WIRE, CORROSION-RESISTING

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Haynes Stellite Div, Union Carbide & Carbon Corp, Kokomo, Ind
Allegheny Ludlum Steel Corp, Pittsburgh, Pa
Arcos Corp, Phila, Pa
Carpenter Steel Co, Reading, Pa
Colonial Alloys Co, Phila, Pa

WIRE, LEAD

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Amer Air Filter Co, Inc, Louisville, Ky
Eagle-Picher Co, Cincinnati, O
Thermo Electric Co, Fair Lawn, N J

WIRE, MESH

Korh-Pettit Wire Fabrics & Iron Wks, Inc, Phila, Pa

WIRE, STAINLESS STEEL

Republic Steel Corp, Republic Bldg, Cleveland, O — Prospect 1-1400
Allegheny Ludlum Steel Corp, Pittsburgh, Pa
Amer Steel & Wire Co, Cleveland, O
Arcos Corp, Phila, Pa
Carpenter Steel Co, Reading, Pa

NOTE: Chemical Industries has compiled the best information obtainable from manufacturers concerning their products. However, no responsibility can be accepted for these claims.

WIRE, THERMOCOUPLE

Hoskins Mfg Co, Detroit, Mich
Thermo Electric Co, Fair Lawn, N J

WIRE, TIN

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Eagle-Picher Co, Cincinnati, O

WIRE, WELDING

Arcos Corp, Phila, Pa
Carpenter Steel Co, Reading, Pa
Linde Air Prods Co, N Y
Wall Colmonoy Corp, Detroit, Mich

WOOL, GLASS

Greiner, Emil, Co, 20-26 N Moore St, N Y — Digby 9-0660
Will Corp, 39 Russell St, Rochester, N Y — Monroe 0761

WOOL, LEAD

Belmont Smelting & Refg Wks, Inc, 322 Belmont Av, Bklyn, N Y — Dickens 2-4900
Eagle-Picher Co, Cincinnati, O

WOOL, ROCK

Carey, Philip, Mfg Co, Cincinnati, O — Valley 3000
Johns-Manville, 22 E 40 St, N Y — Lexington 2-7600
Eagle-Picher Co, Cincinnati, O

WRAPPING MACHINES

First Machinery Corp, 157 Hudson St, N Y — Worth 4-5900
Loeb Equipment Supply Co, 1923-C W North Av, Chicago, Ill — Brunswick 8-5326
Union Standard Equipment Co, 318 Lafayette St, N Y — Canal 6-5335
Package Machinery Co, Springfield, Mass

it's too late

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Chemical Industries Buyers Guide
330 West 42nd Street, New York 18, N. Y.

How to cover the Chemical Industries...

COMPLETELY—EFFECTIVELY—ECONOMICALLY

IT'S A BIG MARKET

The chemical process industries are basic, still-growing and *stable*. They buy:

Raw Materials	$7,242,000,000
Maintenance Materials	281,000,000
Fuel and Power	498,000,000
Containers	305,000,000
Transportation	350,000,000
Supplies and Services	159,000,000

COVERAGE THAT COUNTS

In the process industries, 1,843 plants produce more than $1 million worth of materials annually; 2,978 plants fall into the $500,000 category.

CI will take your sales message into 3,552 plants estimated to represent 76 per cent of the industries' total purchasing power.

Here's a breakdown of calculated coverage industry-by-industry:

Textile Processing	61%
Pulp and Paper	34
Paints, Varnish, Colors	74
Animal and Vegetable Oils	37
Drugs, Medicines, Toilet Preparations, Insecticides	81
Soap and Glycerine	96
Rayon and Allied Products	97
Hardwood Distillation, Naval Stores	45
Fertilizers	31
Industrial Chemicals	96
Miscellaneous Chemical Products	97
Petroleum Refining	81
Rubber Processing	98
Leather Tanning	23
Cement, Lime, Refractories	26
Non-Ferrous Metallurgy	93

CONCENTRATED BUYING AUDIENCE

CI's highly selective (ABC) circulation is aimed not at the mass but at the market. A certified survey has established that each copy of CI has an average of 2.77 readers (active audience: 29,400) and that 73.2% of these readers buy, specify or recommend the purchase of chemicals, equipment, containers, raw materials.

EDITORIAL SCOPE

CI is edited for the active, responsible leaders of the chemical industries. It is designed, specifically, to provide these men—the industries' planners and doers—with the essential information they must have in concise, readable, understandable form.

Editorially, CI is not concerned with the abstruse and the highly theoretical; it does stress what new technical developments mean *economically*, their overall significance and import, how they will affect markets, processing techniques, packaging procedures, etc. CI is practical, useful, usable.

How well do CI's industrially-experienced editors do their job of weighing, appraising, interpreting, integrating, featuring? Here's one criterion: This year CI won Industrial Marketing's highest award for outstanding editorial achievement.

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Chemical Industries

330 West 42 STREET, NEW YORK 18, N.Y.

A McGRAW-HILL PUBLICATION

Index and Trade Name Dictionary

Index direct page reference to all Chemical & Raw Materials, Specialties, Equipment and Container Products with commercial and scientific synonyms, brands, and trade names

The arrangement is strictly alphabetical, with the nouns or class names first. Examples: Acetic Acid look for Acid, Acetic; for Textile Detergents look under Detergents, Textile.

The chemical salts are listed under the metallic element. Examples: under Barium, from Barium Acetate to Barium Zirconium Silicate, are 30 different barium salts: Sodium Chloride is found under Sodium in alphabetical order with the other sodium salts, not under Chloride.

Capital letters in the Index indicate a definite heading in the Buying Guide (white pages) and refer directly to the exact page number on which this item appears.

Suppose, as a test, you want to buy "Alapurin": you will find this word in the index listed as follows:

Alapurin, see Lanolin

and you know that this is a synonym for Lanolin which you can find in the Index and learn at once the exact page upon which it is to be found.

Take as another example, Alkolene, which you look up and find:

Alkolene: Martin Dennis Co., Newark, N. J., fat liquor.

and you know that this is the trade name of a fat liquor, made by Martin Dennis Co.

A-1: H. Adler & Son, Phila., Pa., casein spreader & sticker.
A-1: Allis-Chalmers, Milwaukee, Wisc., jaw crusher.
A-1: Monsanto Chem. Co., Akron, O., thiocarbanilide.
A-1 Technical: H. Gartenberg & Co., Inc., Chicago, Ill., egg albumen crystals.
A-2-Z: Planetary Chem Co., Creve Coeur, Mo., syn. emulsifier.
4A: Harrison & Co., Inc., Haverhill, Mass., polishing cement.
5A: Thomas W. Dunn Co., N.Y.C., sealing compound.
A-19: Monsanto Chem. Co., Akron, O., formaldehyde aniline.
A-19: Monsanto Chem. Co., Akron, O., formaldehyde reaction product of the aldehyde derivative of Schiff's base.
27A: Kelite Prods. Inc., Los Angeles, Calif., detergent.
A-33: Monsanto Chem. Co., Akron, O., aldehyde derivative of Schiff's base.
A-46: Monsanto Chem. Co., Akron, O., a blend of Santocure and El-Sixty.
A-77: Monsanto Chem. Co., Akron, O., equi-molar acetaldehyde reaction product of ethylideneaniline.
A-100: Monsanto Chem. Co., Akron, O., aldehyde derivative of a Schiff's base.
AA: The Baker Castor Oil Co., N.Y.C., castor oil.
AA: U. S. Gypsum Co., Chicago, Ill., dolomitic stone.
AA6: Binney & Smith Co., N.Y.C., carbon black.
A.A.C.: Amer. Agric. Chem. Co., N.Y.C., insecticides, fert.
A. A. Fish: Amer. Agric. Chem. Co., N.Y.C., mixed fert.
AAAR: E. F. Drew & Co., Inc., N. Y. C., fatty acid.
AAB: E. F. Drew & Co., Inc., N. Y. C., lauric acid.
AB: E. F. Drew & Co., Inc., N. Y. C., lauric and fatty acids.
ABA: Gibbs Paint Mfg. Co., Euclid, O., liquid roofing.
A.B.C.: American-British Chemical Supplies, Inc., N. Y. C., chemicals.
A B C: Anti-Borax Compound Co., Inc., Fort Wayne, Ind., welding flux.
A-C: Allis-Chalmers, Milwaukee, Wisc., entire line.
"A-C": Elgin Softener Corp., Elgin, Ill., anti-corrosion treatment.
"AC" Tox: Agricultural Chems. Co., Phoenix, Arizona, weed killers.
ACB primer: Tropical Paint & Oil Co., Cleveland, O., metal primer.
ACL: Owens-Illinois Glass Co., Toledo, O., applied color lettering.
A.D.D. Spray: L. Sonneborn Sons Inc., N.Y.C., odorless spray insecticide.
AF-41: Feedwaters Inc., N. Y. C., anti-foaming agt.
AN: The Baker Castor Oil Co., N.Y.C., processed castor oils.
A. N. Compound: Spanier Soap & Chem. Co., Santa Monica, Calif., detergent.
AP: Adhesive Prods. Corp., N.Y.C., natural latex.
AP: Wollen Chem. & Supply Co., Paterson, N. J., cleaning powder.
A-P-C: Alloy Prods Corp., Waukesha, Wisc., fittings.
APW: Amer. Platinum Works, Newark, N.J., platinum wares.
A-R: Carnegie-Ill. Steel Corp., Pittsburgh, Pa., steel.
AR-50: Velsicol Corp., Chicago, Ill., insecticide.
A.S.P.: Edgar Brothers Co., Metuchen, N.J., paint & ink extenders.
A.T.: Binney & Smith Co., N.Y.C., ivory black.
ATD: Hammill & Gillespie Inc., N. Y. C., china clay.
A. T. & M.: Amer. Tool & Machine Co., Boston, Mass., centrifugals.
A Tri-Core: Alpha Metals Inc., B'klyn, N. Y., solders.
A-W: Arnold-Hoffman & Co., Inc., 55 Canal st., Prov., R.I., var. spec.
1 A. W. P. A.: Chem. & Pigment Co., Oakland, Calif., creosote.
A-Z Flat: R-B-H Dispersions Div. Interchemical Corp., Bound Brook, N.J., flatting pigment.
AZO: Amer. Zinc Sales Co., N.Y.C., zinc and prods.
A & W: Interchemical Corp., Newark, N. J., metal decorating products.
Aardgum: Western Natural Products Co., Salt Lake City, Utah, rubber extender.
Aarogum: Emil Klemmin, Salt Lake City, Utah, rubber extender.
Abalyn: Hercules Powder Co., Wilmington, Del., rosin ester.
Abco: Slomons Labs, Inc., L. I. City, N. Y., rubber cements.
Abietic Anhydride see Rosin, Gum
"Abitol": Hercules Powder Co., Wilmington, Del., hydroabietyl alcohol.
Abopon: Glyco Products Co., Inc., B'klyn., N. Y., flameproofing agent.
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Absocel: Chemo Puro Mfg. Corp., L. I. City, N. Y., absorption base.
Absopol: Chemo Puro Mfg. Corp., L. I. City, N. Y., absorption base.
"Absopure": Milwaukee Chemical Co., Milwaukee, Wis., soap.
ABSORBERS 619
Absorbite: Dieckmann, Jr., San Fran., Calif., activated carbon.
Abyssinia: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Acacia Gum see Gum Arabic
Acacio: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Accelerator: Inflico, Inc., Chicago, Ill., water softener.
Accelerator 40: Amer. Cyanamid & Chem. Corp., N.Y.C., rubber accel.
ACCELERATORS, RUBBER 481
TANNING 481
Acco: Amer. Cyanamid Co., N. Y. C., casein.
Accobrite: American Cyanamid Co., N. Y. C., rosin sizes.
Accofilm: Amer. Cyanamid Co., N. Y. C., finishes.
Accordion Fold: Atlas Powder Co., Wilmington, Del., electric detonators.
Accotex DDT: Amer. Cyanamid Co., N. Y. C., insecticides.
Accozine: Ciba Co., N.Y.C., textl. penetrant.
Acculute: E. H. Sargent & Co., Chicago, Ill., standard sol. concentrates.
ACCUMULATORS, HYDRAULIC 619
Accurate: Pyrene Mfg. Co., Newark, N J., fire extinguisher.
Accuratus: Taylor Instrument Co., Rochester, N. Y., tubing.
Accutint: E. H. Sargent & Co., Chicago, Ill., pH indicator papers.
Ace: Amer. Hard Rubber Co., N. Y. C., hard rubber prods.
Ace-plastic: Amer. Hard Rubber Co., N. Y. C., plastic prods.
Ace-saran: Amer. Hard Rubber Co., N. Y. C., saran prods.
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Acetaldol see Aldol
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ACETAMIDINE HYDROCHLORIDE 50
Acetamine: E. I. du Pont de Nemours & Co., Organ. Chem. Dept., Wilmington, Del., dyes.
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ACETATE Brown see Calcium Acetate
Dyes see Dyes Acetate
Gray see Calcium Acetate
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Of Lime see Calcium Acetate
Silk Dyes see Dyes Acetate
Aceti Sour: Standard Chemical Wks. Co., Columbus, O., dry cleaning sour.
ACETIC Acid see Acid Acetic
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Cleveland 6, Ohio
AND PRINCIPAL CITIES

INDUSTRIAL CHEMICALS
Any quantity, a pound or a carload. Look under specific headings.

Acetophen see Acid Acetylsalicylic
ACETOPHENETIDIN 53
ACETOPHENONE 54
Acetosal see Acid Acetylsalicylic
Acetosol see Acetylene Tetrachloride
Acetyaminobenzene see Acetanilide
ACETYL Acetanilide see Acetoacetanilide
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Acetylith see Calcium Carbide
Acetylon: Arnold, Hoffman & Co. Inc., Providence, R. I., dyestuffs.
Achlor: Interchemical Corp., N.Y.C., oil colors, artists' colors, pigments.
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1-Amino-2-Naphthol-4-Sulfonic see Acid 1:2:4
2-Amino-5-Naphthol-7-Sulfonic see Acid J
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ACID (cont'd)
Hydrosilicofluoric see Acid Hydrofluosilicic
Hydrosulfuric see Hydrogen Sulfide
Hydroxy see Acid 1:2:4
Hydroxyacetic see Acid Glycollic
p-HYDROXYBENZOIC 69
beta-HYDROXYBUTRIC 69
b-HYDROXY NAPHTHOIC 69
Hydroxymethyl Benzoic see Acid Cresotinic
p-Hydroxyphenyl-a-Aminopropionic see Tyrosine-l, Natural
2-Hydroxy-1,2,3,-Propane see Acid Citric
HYDROXYQUINOLINE SULFATE 70
HYDROXYSTEARIC 70
Hydroxytricarballylic see Acid Citric
INDOLEACETIC 70
IODIC 70
IODOACETIC 70
ISOBUTYRIC 70
Isobutylformic see Acid Isovaleric
ISOVALERIC 70
ITACONIC 70
J
Kakodylic see Acid Cacodylic
KETOGLUTARIC 70
KOCH 70
LACTIC 70
LAURENT'S 71
LAURIC 71
Laurinic see Acid Lauric
Laurostearic see Acid Lauric
Levo-Hydroxysuccinic see Acid Malic
LEVULINIC 71
Lichenic see Acid Fumaric
LINOLEIC 71
Linolic see Acid Linoleic
Maleinic see Acid Maleic
MALEIC 71
MALIC 71
MALONIC 71
MANDELIC 71
Mercaptoacetic see Acid Thioglycollic
MESACONIC 71
METHACRYLIC 71
Methanecarboxylic see Acid Acetic
Methanedicarboxylic see Acid Malonic
METHYLENE DISALICYLIC 71
Methanoic see Acid Formic
Methoxy-benzoic see Acid Anisic
4-methylbenzenesulfonic see Acid Paratoluenesulfonic
Methyl-p-oxy-benzoic see Acid Anisic
Milk see Acid Lactic
MIXED 71
MOLYBDIC 72
MONOSULFONIC F 72
MUCIC 72
MURIATIC 72
MYRISTIC 72
NAPHTHALENEACETIC 72
b-NAPHTHALENE SULFONIC 73
NAPHTHENIC 73
NAPHTHIONIC 74
2-NAPHTHOL-6-NAPHTHOIC 74
NAPHTHOXY ACETIC 74
b-NAPHTHOXYACETIC 74
1: 4 Naphtholsulfonic see Acid Neville and Winther's
2-Naphthol:7 Sulfonic see Acid Cassella
1-Naphthylamine—3:8 Disulfonic see Acid Epsilon
2-Naphthylamine 6:8 Disulfonic see Amino G Salt
1-Naphthylamine—8—Sulfonic see Acid Peri
Naphthylaminesulfonic 2:6 see Acid Broenner's
1:6 and 1:7 Naphthylaminesulfonic see Acid Cleve's
2-Naphthylamine-7-Sulfonic see Acid Monosulfonic F
2-Naphthylamine-1-Sulfonic see Acid Tobias
1-Naphthylamine 3:6:8 Trisulfonic see Acid Koch
1-Naphthyl Acetic see Acid Naphthaleneacetic
NEVILLE & WINTHER'S 74
NICOTINIC 74
NICOTINIC DIETHYLAMIDO 74
Nicotinic Diethylamide see Nikethamide
Nitrating see Acid Mixed
NITRIC 75
p-NITRO BENZOIC 75
Nitrodracylic see Acid Para Nitro Benzoic
1-Nitronaphthalene:5-Sulfonic see Acid Laurent's
Normal Pyrotartaric see Acid Glutaric
NUCLEIC 75
Octadecadienoic see Acid Linoleic
Octanoic see Acid Caprylic
Octic see Acid Caprylic
Octodecylic-n see Acid Stearic
Octoic see Acid Caprylic
Octylic see Acid Caprylic
OLEIC see also Oil Red 76
Oleinic see Oil Red
Ortho-amino Benzoic see Acid Anthranilic
o-Arsenic see Acid Arsenic
Ortho-Benzene-Dicarboxylic see Acid Phthalic
Orthoboric see Acid Boric
Ortho-Hydroxybenzoic see Acid Salicylic
Ortho-Phosphoric see Acid Phosphoric
Ortho-Tungstic see Acid Tungstic
OSMIC 76
OXALIC 76
Oxopentanoic see Acid Levulinic
Oxyethylene-succinic see Acid Malic
Oxyphenic see Pyrocatechol
PALMITIC 77
Palmitinic see Acid Palmitic
PANTOTHENIC 77
Para-Amido Benzenesulfonic see Acid Sulfanilic
Para-Aniline Sulfonic see Acid Sulfanilic
Para-Hydroxy-phenylamino Acetic see Chemicals Photographic
Para-Rosolic see Acid Rosolic
PELARGONI 77
Pentanoic see Acid Valeric

ACID (cont'd)
PERACETIC, 40% 77
PERCHLORATE 77
PERCHLORIC 77
PERI 77
PERIODIC 77
Phenic see Phenol
PHENOL SULFONIC 77
PHENOXY ACETIC 77
Phenylcinchoninic see Cinchopen
Phenylic see Phenol
PHENYL ACETIC 77
Phenylacetylene Carboxylic see Phenylpropiolic
1-Phenylnaphthylamine:8-Sulfonic see Acid Phenyl Peri
PHENYL PERI 78
PHENYLPROPIOLIC 78
Phosphate see Superphosphate
Phosphate of Lime see Calcium Phosphate Monobasic
PHOSPHOMOLYBDIC 78
PHOSPHORIC 78
m-PHOSPHORIC 79
Phosphoric Anhydrous see Phosphorus Pentoxide
PHOSPHORIC PASTE 79
PHOSPHORUS 79
PHOSPHOTUNGSTIC 79
PHTHALIC 79
PICRAMIC 79
Picramnic see Acid Picramic
PICRIC 79
Picronitric see Acid Picric
PIMELIC 80
POLYMETHACRYLIC 80
Potassium Oxalate see Potassium Binoxalate
Powdered Cyanic see Calcium Cyanide
PROPIOLIC 80
PROPIONIC 80
Propylformic see Acid Butyric
Prussic see Acid Hydrocyanic
Pthoric see Acid Hydrofluoric
3-Pyridinecarboxylic see Acid Nicotinic
Pyrocatechenic see Pyrocatechol
PYROGALLIC 80
PYROLIGNEOUS 80
Pyromucic see Acid Furoic
PYROPHOSPHORIC, Anhydrous 80
PYRUVIC 80
Racemic see Acid Tartaric
RESORCIN DIACETIC 80
b-RESORCYLIC 80
RHODIZONIC 80
Ricinic see Acid Ricinoleic
RICINOLEIC 80
ROSOLIC 80
S
SS see Acid Chicago
Saccharolactic see Acid Mucic
SACCHARIC 80
Saccharinic see Acid Saccharic
SALICYLIC 80
Sand see Acid Hydrofluosilicic
SEBACIC 81
Sebacylic see Acid Sebacic
SELENOUS 81
SILICIC 81
Silicofluoric, see Acid Hydrofluosilicic
SILICOTUNGSTIC 81
Sodium Beta Naphthol-6:8-Disulfonic see G Salt
Sodium Pyrophosphate see Sodium Acid Pyro Phosphate
SORBIC 81
Sozolic see Acid Phenol Sulfonic
Stearophanic see Acid Stearic
STEARIC 81
Stearinic see Acid Stearic
Stibious see Antimony Oxide
SUBERIC 83
SUCCINIC 83
SULFAMIC 83
SULFANILIC 83
SULFONATED LAURIC 83
SULFOSALICYLIC 83
SULFURIC 83
SULFUROUS 85
Sulphocarbolic see Acid Phenol Sulfonic
Sulphophenylic see Acid Phenol Sulfonic
TANNIC 85
TAR 86
TARTARIC 86
Tetrahydroxy-Hexanedioic see Acid Mucic
TETRAPHOSPHORIC 86
THIOGLYCOLLIC 86
THIOPHENE-2-CARBOXYLIC 87
THIOSALICYLIC 87
Thiovanic see Acid Thioglycollic
TOBIAS 87
TOLUENESULFONIC 87
p-TOLUENESULFONIC 87
Transcrotonic see Acid Crotonic
Tricarboxylic see Acid Citric
TRICHLORPHENOXYACETIC 87
TRIFLUOROACETIC 87
Trihydroxybenzoic see Acid Gallic
Trioxybenzoic see Acid Gallic
TUNGSTIC 87
Umbellic see Acid Anisic
UNDECYLENIC 87
UNDECYLIC 87
URIC 87
VALERIC 87
Vinegar see Acid Acetic
Wolframic see Acid Tungstic
ACIDS AMINO 87
FATTY DISTILLED 88
Fatty Hydrogenated see Fats Hydrogenated.
FATTY WOOL GREASE 89
PHOSPHINIC 89

Acidex: Lotte Chemical Co., Inc., Paterson, N. J., inhibitors.
Acidoin: Apex Chem. Co., N.Y.C., acid mordant.
Acidolate: Nopco Chem Co., Harrison, N. J., soapfree skin detergent.

ACIDOLENE: The Martin Dennis Co., Div. of Diamond Alkali, 859 Summer Ave., Newark 4, N. J. Humboldt 3-2874

Sulfonated oil fat liquors comprising a complete range of oils; animal, marine, mineral and vegetable. Adapted to all kinds of hides and skins and all varieties of finished leather. Other outstanding fat-liquor specialties, acid, alkaline and neutral, for specific types of leather are Albacil, Alkolene, Emubol, Neetol and Neutrolene.

Acidolene: Martin Dennis Co., Newark, N.J., sulphonated oil-fat liquor.
Acidon: Heil Process Equipment Corp., Cleveland, O., acid proof paint.
Acid-Proof Cement see Cements Acid-Proof
Coatings see Coatings Acid-Proof
Enamels see Enamels Acid-Proof
Acid-Resistant Paints see Paints Acid-Resistant
Putty see Putty Acid-Resistant
Varnishes see Varnishes Acid-Resistant
Acidseal: The B. F. Goodrich Co., Akron, O., acid-alkali resistant coating.
Acidulin see Acid Glutamic Hydrochloride
Acinthia: Fritzsche Bros. inc., N. Y. C., syn. hyacinth base.
Acitrol: E. F. Houghton & Co., Phila., acid inhibetors.
Acolin: Newport Industries Inc., N.Y.C., tall oil.
Aconew: Newport Industries Inc., N.Y.C., fatty acids.
ACONITIC ANHYDRIDE 89
Acorn: Pacific Clay Products, Los Angeles, Calif., firebrick.
Acon Stick: Atlas Adhesives, Phila., Pa., tile cement.
ACRIDINE 89
Acrin: Du Pont Co., Rubber Chem Div., Wilmington, Del., rubber accelerator.
ACROLEIN 89
Acrylic Aldehyde see Acrolein
Acrylic Liquid see Methyl Methacrylate
Resins see Resins, Acrylic
Acrylite: Peters Chem. Mfg. Co., Melrose Pt., Ill., dental plate reliner.
Acryloid: Rohm & Haas Co., Phila., acrylic ester resins for protective covering.
Acryloid: Rohm & Haas Co., Phila., acrylic polymers.
Acrylon: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., fumigants.
Acrylon: Amer. Cyanamid Co., N. Y. C., spot fumigant.
ACRYLONITRILE 90
Acrysol: Rohm & Haas Co., Phila., Pa., text. sizing.
Actane: Enthone, Inc., New Haven, Conn., additive for acids.
Actex: The Dubois Co., Cincinnati, O., detergent.
Actifat: Harsyd Chems. Inc., Holland, Mich., rubber activator.
Activase: Dehls & Stein, Newark, N.J., beer chillproof. comp.
Activated Carbon see Carbon Activated
ACTIVATORS, INSECTICIDE 481
RUBBER 481
Actol: Esso Standard Oil Co., N. Y. C., lubricant.
Actol: Esso Standard Oil Co., N. Y. C., soda-lime base lubricant.
Actrasol: Arthur C. Trask Co., Chicago, Ill., soluble oils.
Actron: Allis-Chalmers, Milwaukee, Wisc., electronic devices.
Actusol: The Dubois Co., Cincinnati, O., emulsifying solvent.
Acweld: Speer Carbon Co., St. Marys, Pa., welding carbons.
Adacast: Botfield Refractories Co., Phila., Pa., castable refractory.
Adachrome Plastic Super Cement: Botfield Refractories Co., Phila., Pa., base cement.
Adahearth: Botfield Refractories Co., Phila., Pa., plastic chrome ore.
Adamantean: Inflico, Inc., Chicago, Ill., filler & surfacer.
Adamant Fire Brick Cement: Botfield Refractories Co., Phila., Pa., bonding mortar.
Adapatch: Botfield Refractories Co., Phila., Pa., fire brick material.
Ada-Stic: Botfield Refractories Co., Phila., Pa., plastic insulating cement.
Adco: Adhesive Prods. Corp., N.Y.C., tile cement.
Adcraft: The Braden-Sutphin Ink Co., Cleveland, Ohio, printing ink.
Addition Agents: Zeolite Corp., Worcester, Mass., for use in chrome baths.
ADDITIVES, LUBRICANT 482
WAX 482
Addolube: Petroleum Specialties, Inc., N. Y. C., lube oil additives.
Adelco: Adelphi Paint & Color Wks., Ozone Pk., N. Y., paints, enamels.
Adeps Lanae see Lanolin
Adeps Minerals see Petrolatum
Adflex: Adhesive Products Corp., New York, N. Y., latex cement.
ADHESIVE BASES 482
ADHESIVES 482
ASBESTOS 483

ADIPOL-BCA: Ohio-Apex, Inc., Nitro, W. Va. Nitro 152

Dibutoxy Ethyl Adipate. An excellent plasticiser with high efficiency for polyvinyl resins, nitrocellulose, ethyl cellulose, etc. Recommended for use where extremely low temperature flexibility, permanence, low water extraction, and resistance to ultra-violet light are required. Boiling range @ 4 mm. 200°C. to 220°C. Freezing point —39°C.

ADIPOL 2 EH: Ohio-Apex, Inc., Nitro, W. Va. Nitro 152

Di-2-Ethylhexyl Adipate. An excellent plasticiser for polyvinyl resins, nitrocellulose, ethylcellulose and other resins. Recommended for use where excellent electrical properties, extreme low temperature flexibility, permanent flexibility, low water loss, resistance to U-V light, heat stability, and easy processing are required. Boiling range @ 4 mm., 205-220°C. Freezing point, —70°C. (stiff, clear gel.)

Adjust-O-Feeders: Proportioneers Inc., Providence, R.I., proportioning pumps.
Aderin see Formaldehyde
Ados: Monsanto Chem. Co., St. Louis, lamp black.
Adrogen: Biorganic Laboratories, Inc., B'klyn., N. Y., male hormone.
Adrub: Adhesive Prods. Corp., N.Y.C., rubber cement.
Adsco: Amer. District Steam Co., N. Tonawanda, N. Y., steam equipment.
ADSORBENTS 483
OIL & GREASE 483
ADSORPTION APPARATUS 619
Adurel see Chlorohydroquinone
Advan: Advance Solvents & Chem Corp., N. Y., rubber accelerator.
Advasols: Advance Solvents & Chem Corp., N. Y., paint driers.
Adva-Tite: Advance Paint Company, Indianapolis, Ind., house paint.
Adva-Tone: Advance Paint Co., Indianapolis, Ind., stain.
Advawax: Advance Solvents & Chem. Corp., N. Y. C., paper coating materials.
Advawet: Advance Solvents & Chem. Corp., wetting agt.
Adweld: Adhesive Products Corp., New York, N. Y., plastic cement.
AERATORS 619
Aerfloted: J. M. Huber, Inc., N.Y.C., carbon black.
Aerngo see Copper Acetate
Aero: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., fertilizers..
Aero: American Cyanamid Co., New York, N. Y., chemical reagents.
Aero: Specialty Ink Co., Inc., N.Y.C.
Aero defoliant: Amer. Cyanamid Co., N. Y. C., chemical dust.
Aero-Vibe: Allis-Chalmers, Milwaukee, Wisc., vibrating screen.
Aerocarb: Amer. Cyanamid Co., N. Y. C., carburizing compounds.
Aerocase: Amer. Cyanamid Co., N. Y. C., case hardening compounds.
Aerocat: Amer. Cyanamid Co., N. Y. C., cracking catalyst.
Aerodyne: The Jeffrey Mfg. Co., Columbus, O., ventilating fans.
Aerofelt: Johns-Manville Corp., N.Y.C., heat insulation matl.
Aerofio: Amer. Cyanamid Co., N. Y. C., conditioning compds.
Aerofloat: Amer. Cyanamid Company, Mineral Dressing Div., N.Y.C., flotation reagent.
Aer-O-Foam: National Foam System, Inc., West Chester, Pa., fire fighting foam.
Aerofume: Eston Chemicals, Inc., Los Angeles, Calif., aerosol.
Aerogel: Merrimac Div., Monsanto Chem. Co., Everett, Mass., thickening, dispersing and absorbing agt.
Aeroheat: Amer. Cyanamid Co., N. Y. C., heat treating salts.
Aeroids: Amer. Cyanamid Co., N. Y. C., 96-98% sodium cyanide.
Aerolite: Pittsburgh Plate Glass Co., Pittsburgh, Pa., aircraft glass.
Aerolube: Amer. Cyanamid Co., N. Y. C., additives.
Aero-mix: Precision Scientific Co., Chicago, Ill., stirrers & shakers.
Aero-Phos: Amer. Cyanamid Co., N. Y. C., phosphate.
Aeroprillis: American Cyanamid Co., New York, N. Y., fertiliser.
Aeroseal: Amer. Cyanamid Co., N. Y. C., mud conditioning compd.
Aerosize: Amer. Cyanamid Co., N. Y. C., sizing preparations.
Aerosol: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C. wetting agents.
Aerotan: Amer. Cyanamid Company, Industrial Chems. Div., N. Y. C. water loss control reagent.
Aerotex: Amer. Cyanamid Co., N. Y. C., textile finishers.
Aertite: Johns-Manville, N.Y.C., boiler coating & paint.
Aerugo see Copper Acetate
Aerzonator: U. S. Sanitary Spec. Corp., Chgo., deodorants
Aesco: Asphalt Emulsion Service Inc., N. Y. C., roof coatings.
Aesculin see Esculin
Aether Aceticus see Ethyl Acetate
Nitricus see Ethyl Nitrate
Aethon see Triethyl-o-Formate
Aethylium Bromatus see Ethyl Bromide
Aetna: Hammill & Gillespie Inc., N. Y. C., clay.
Afco: Amer. Firstoline Corp., N. Y. C., chem. specialties.
Afco: Alex C. Ferguson, Philadelphia, Pa., detergents.
Afcol: Alex C. Ferguson Co., Phila., text. oils.
Afcon: Alex C. Ferguson Co., Phila., water softener.
African Saffron see Saffron Spanish.
Aftalene: Afta Solvents Corp., New York, N. Y., French dry cleaner.
AFTERCOOLERS 619
Aftite: Afta Solvents Corp, N. Y. C., gum remover.
Agal see Agar
Agaloid: T. M. Duche & Sons Inc., N.Y.C., Irish Moss Extract.
AGAR 90
Aged: Spencer Kellogg & Sons, Buffalo, N.Y., linseed oil.
Age-Rite: R. T. Vanderbilt Co., N.Y.C., rub. anti-oxidant.
AGITATORS 619
AIR 620
LIQUID 620
MECHANICAL 620
PIPE LINE 620
STEAM AND AIR JET 620
Agitene: Gray-Mills Co., Evanston, Ill., cleaning solvents.
Agitor Parts: Gray-Mills Co., Evanston, Ill., cleaning systems.
Agno: Phoenix Oil Prods. Corp., Newark, N. J., sol. wool wax.
Agricide: Reade Mfg. Co., Jersey City, N. J., weed killer.
Agrico: Amer. Agric. Chem. Co., N.Y.C., mixed farm fert.
Agricultural Insecticides see Insecticides Farm
Spray Bases see Spray Bases Agricultural
Agri-Lite: Wyodak Chem. Co., Cleveland, Ohio, vermiculite.
Agrilia see Kaolin
Agrinite: Amer. Agric. Chem. Co., N.Y.C., organ. ammoniates.
Agucarina see Saccharin
Ahcobond: Arnold, Hoffman & Co. Inc., Providence, R. I., resin binder.
Ahcochrome: Arnold, Hoffman and Co., Inc., Providence, R. I., chrome mordant dyes.
Ahcofix: Arnold, Hoffman & Co. Inc., Providence, R. I., dyestuff fixation agt.
Ahcols: Arnold, Hoffman & Co. Inc., Providence, R. I., dyeing asets.
Ahcopels: Arnold, Hoffman & Co. Inc., water repellents.
Ahcoquinone: Arnold, Hoffman & Co., Inc., Providence, R. I., wool dyes.
Ahcospun: Arnold, Hoffman & Co Inc., Providence, R. I., sizes.
Ahcovat: Arnold, Hoffman & Co., Inc., Providence, R. I., vat dyes.
Ahcovels: Arnold, Hoffman & Co., Providence, R.I., softening agents.
Ahepalite: Rohm & Haas Co., Phila., waterproof agt.
Ahcowets: Arnold, Hoffman & Co. Inc., Providence, R. I., wetting agts.
Ainslee Black: W. D. Wilson Printing Ink Co., Long Island City, N. Y., printing ink.
Air-Blast: Allis-Chalmers, Milwaukee, Wisc., separation of grain.
Aircheck: Pennsylvania Pump & Compressor Co., Easton, Pa., check valves.
AIR CONDITIONING EQUIPMENT 620
Air Cushion: Pennsylvania Pump & Compressor Co., Easton, Pa., valves.
AIR DE-HUMIDIFIER 483
Air Kem: Gross Drug Co., Harrisburg, Pa., deodorants.

AIR, RECOVERY SYSTEMS 621
Air Re-Nu: Chem. Mfg. Sales Co., Chicago, Ill., air filter.
AIR SEPARATORS 621
Air-sweet: Uncle Sam Chem Co. Inc., N. Y. C., liquid deodorant.
Air-wick: Chem. Mfg. Sales Co., Chicago, Ill., air cleaner.
Airco: Air Reduction Sales Co., New York, N. Y., gases and liquids.
Airflex: Falk Corp., Milwaukee, Wisc.
Air-Flo Green: Chipman Chem. Co. Inc., Bound Brook, N. J., paris green.
Airfluff: Mitts & Merrill, Saginaw, Mich., paper shredders.
Airfoam: Goodyear Tire & Rubber Co., Akron, O., foamed latex.
Airfoam-Generating: Amer. LaFrance Foamite Corp., Elmira, N. Y., nozzle.
Airidase: Dehls & Stein, Inc., Newark, N. J., anti-oxident.
Airlift: Fuller Co., Catasauqua, Pa., pneumatic systems.
Airlite: Carpenter Container Corp., B'klyn., N. Y., drums all fibre.
Airo: Chem. Mfg. Sales Co., Chicago, Ill., filter treatment water.
Airocool: National Airoil Burner Co., Phila., Pa., gas burners.
Air-o-Line: Minn Honeywell Regulator Co., Philadelphia, Pa., pneumatic control unit.
Airometric: Milton Roy Co., Chestnut Hill, Pa., pumps.
Airplane Dopes see Dopes Airplane
Air-Sand: Stephen-Adamson Mfg. Co., Dry Coal Cleaner
Air-Set: W. D. Wilson Printing Ink Co., Long Island City, N. Y., printing inks.
Air-Spun: Jos. Dixon Crucible Co., Jersey City, N. J., graphite reduced to 2½ microns in particle size.
Airveyor: Fuller Co., Catasauqua, Pa., conveying system.
Airxpel: Wright-Austin, Detroit, Mich., steam traps.
Ajax: Binney & Smith Co., N.Y.C., black pigment.
Ajax: Hewitt Rubber Div., Buffalo, N. Y., hose.
Ajax: Sherwin-Williams Co., Chicago, Ill., insulating varnish.
A-jax: U. S. Gasket Co., Camden, N. J., spiral wound.
Aka: Bergstrom Trading Co., N.Y.C., analyt., electroplat., lab. chems.
Akalene: Chemco Prod. Co. Inc., Chicago, Ill., paint stripper.
Akanstan: General Dyestuff Corp., N. Y. C., fireproofing compound.
Akbar: Kinnear Mfg. Co., Columbus, O., fire doors.
Akins: Colorado Iron Works Co., Denver, Colo., separator.
Ako: Bergstrom Trading Co., N Y C., emulsifier
Aken: Allis-Chalmers Mfg. Co., Milwaukee, boiler feedwater treatment.
Akroflex: Du Pont Co., Rubber Chems. Div., Wilmington, Del., rubber antioxidant.
Akro-Metal: Akron Metallic Gasket Co., Akron, Ohio, gaskets.
Akronite: Akron Metallic Gasket Co., Akron, Ohio, asbestos sheet.
Aktivin: Heyden Chem. Corp., N. Y. C., disinfectant.
Aktone: J. M. Huber Corp., N.Y.C., activator.
Akuaka Wax: T. G. Cooper & Co. Inc., Phila., Pa., syn. Japan wax.
Akwafalt: Asphalt Emulsion Service, Inc., N.Y.C., asphalt emulsions.
Alabaster see Gypsum
Alabastex: Alabastine Paint Products, Chicago, Ill., water paint.
Alabastone: Alabastine Paint Products, Chicago, Ill., casein water paint.
Alaka: Lacquer Chemical Corp., B'klyn., N. Y. lacquers and thinners.
Alakatone: Lacquer & Chem. Corp., B'klyn, N.Y., hammered silver.
ALANINE 90
b-ALANINE 90
Alapurin see Lanolin
ALARMS, LIQUID LEVEL 621
PRESSURE 621
TEMPERATURE 621
Alathon: Du Pont de Nemours & Co., Ammonia Dept., Wilmington, Del., polythene resins.
Alba: The M. Werk Co., St. Bernard, O., stearic acid.
Albacar: Williams & Co., Emeryville, Calif., whitings.
Albalith: N. J. Zinc Sales Co., N. Y. C., lithopones.
Albaoil: Martin Dennis Co., Newark, N. J., sulphonated castor oil.
Albaphor: Carlton Chemical Co., Inc., N. Y. C., textile bleach.
Albasol: Nopco Chem Co., Harrison, N.J., emulsifier.
Albasol: Nopco Chem Co., Harrison, N.J., var. chem., spec.
Albatan: Martin Dennis Co., Newark, N. J., white tannage for buck leather.
Albatex Bd: Ciba Co., N.Y.C., kier asst.
Albone: Electrochemical Dept., Du Pont Co., Wilmington, hydrogen peroxide.
Alborit: R. W. Greeff & Co., N.Y.C., photo. developer.
Albral: Foundry Services, Inc., N. Y. C., for aluminum bronze castings.
Albron: Aluminum Co. Amer., Ptsbgh., aluminum paste.
ALBUMEN, BLOOD 90
EGG 90
MILK 90
TANNATE 91
VEGETABLE 91
Albusol: Mallinckrodt Chem. Wks., St. Louis, Mo., albumen solution.
Alchemize: Nu Steel Co., Chicago, Ill., aluminum dip.
Alco: Merrimac Chem. Div., Monsanto Chem Co., Boston, solvent.
Alcoa: Aluminum Co. of Amer., Ptsbgh., aluminum and al. alloys.
Alcofoam Powder: Amer. LaFrance Foamite Corp., Elmira, N. Y., fire-extinguishing chemical.

ALCOHOLS

ALCOHOL, ALLYL 91
Alcohol see Propylene Chlorhydrin
AMYL, ISO 91
AMYL (mixed Isomers) 91
AMYL, NORMAL see also Oil Fusel 91
AMYL, SECONDARY 91
AMYL, TERTIARY 92
BENZYL 92
Bornyl see Borneol
BUTYL, NORMAL 92
SECONDARY 92
TERTIARY 93
Butyric see Alcohol, Butyl Normal
Capril see Alcohol Octyl, Normal, Secondary
CAPRYL 93
Caprylic see Alcohol Capryl
CETYL 93
Cetylic see Alcohol Cetyl
Chlorethyl see Ethylene Chlorohydrin
Chloriscopropyl see Propylene Chlorhydrin
CINNAMIC 93
CROTYL 93
CYCLO PENTYL 93
DECYL 93
ALCOHOL (cont'd)
DENATURED 94
Denaturants see Denaturants Alcohol
DIACETONE 94
ETHYL 94
2-ETHYL BUTYL 95
2-ETHYL HEXYL 95
Ethylene see Ethylene Glycol
FURFURYL 95
Glycocoll see Ethylene Glycol
Glycol see Ethylene Glycol
Glycyl see Glycerine
Grain see Alcohol Ethyl
HEPTADECYL 95
HEPTYL 95
n-HEPTYL 95
Hexadecyl see Alcohol Cetyl
n-HEXYL 95
HIGHER FATTY 95
HYDROABIETYL 96
ISOBUTYL 96
ISO-OCTYL 96
ISOPROPYL 96
LANOLIN 96
Methyl see Methanol
METHALLYL 97
gamma-Methyl-Allyl see Alcohol Crotyl
METHYL AMYL 97
NONYL 97
n-NONYL 97
OCTYL 97
OCTYL, Normal, Primary 97
OCTYL, Normal, Secondary 97
OLEYL 97
Phenylic see Phenol
PHENYL ETHYL 97
PHENYL PROPYL 97
POLYVINYL 97
Propenyl see Glycerine and Alcohol Allyl
PROPARGYL 97
PROPYL 98
Pseudobutyl see Alcohol Butyl Tertiary
Pseudropropyl see Alcohol Isopropyl
STEARYL 98
Tert-Trichloro Butyl see Chlorbutanol
TETRADECYL 98
TETRAHYDROFURFURYL 98
UNDECYL 98
UNDECYLENYL 98
Alcohol-Gasoline Motor Fuels see Gasoline-Alcohol Blends
Alcohol-Resistant Lacquers see Lacquers Alcohol-Resistant
ALCOHOLS, WOOL GREASE 98
Alcolan: Robinson Wagner Co., Inc., N.Y.C., absorption base.
Alcolec: American Lecithin Company Inc., Woodside, N.Y., soybean lecithin.
Alcolored: Colonial Alloys Co., Phila., Pa., aluminum forms.
Alcozyme: Wallerstein Co. Inc., N.Y.C., enzyme.
Aldaromes: Fritzsche Bros. Inc., N. Y. C., formaldehyde deodorant.
Aldehol: Kay-Fries Chemicals, Inc., N. Y. C., alcohol denaturant.
ALDEHYDE see Acetaldehyde
AMMONIA 98
ALDEHYDES FATTY 98
Aldehydes see Butyraldehyde, Crotonaldehyde, Octyl Aldehyde, etc.
Aldehydine L.G.: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Aldo: Glyco Products Co., Inc., B'klyn., N. Y., edible glyceryl stearate.
Aldoform see Formaldehyde
ALDOL 98
Aldrin 118: Julius Hyman & Co., Denver, Colo., insecticide.
Aleppo Galls see Nutgalls
Alert: Aronite Chem Co., N. Y. C., gas odorant.
Alert: Esso Standard Oil Co., N. Y. C., adhesive lubricant.
Alert: Oronite Chem Co., San Fran., Calif., con. gas odorant.
Alfcospray: Amer. LaFrance Foamite Corp., Elmira, N. Y., nozzle.
Alfrax: Carborundum Co., Niagara Falls, N.Y., boiler cement
Algeate: Wollen Chem. & Supply Co., Paterson, N. J., quaternary disinfectant.
ALGIN 98
Algol: Gen'l Dyestuff Corp., N.Y.C., vat dye.
Algor: Foodwaters Inc., N.Y.C., boiler water treatment.
Algusol: Gen'l Dyestuff Corp., N.Y.C., leuco vat dye.
Alizachrome: Zinsser & Co., Hastings-on-Hudson, N.Y., coaltar dyes.
Alizarol: Nat'l Aniline & Chem. Co., N.Y.C., mordant acid dyes.
ALIZARIN 99
Assistant see Oil Turkey Red
Alk-Acid: George Mann & Co., Inc., Providence, R. I., textile detergents.
Alkacid Yellow: Ansbacher-Siegle Corp., Rosebank, S. I., N. Y., para nitroaniline yellow.
Alkacid Test Paper: Fisher Scientific Co., Pittsburgh, Pa., pH indicator paper.
Alkagel: Amer. Algin Prods. Co., Duluth, Minn., waterproofing compounds.
ALKALOIDS 99
Alkalate: Standard Silicate Div., Diamond Alkali Co., Ptsbgh., modified soda.
Alkali see Soda Ash, Soda Caustic, Sodium Bicarbonate, Potassium Hydroxide, Hydrogen Peroxide, Sodas Modified, etc
ALKALI INDUSTRIAL 483
Alkaloid see Quinine
Alkaloy: Atlas Mineral Prods., Mertztown, Pa., protective coatings.
Alkanol: Du Pont Co., Organic Chem. Dept., Wilmington, wetting out agt.
Alkalon: Hell Process Equipment Corp., Cleveland, O., acid resisting material.
Alkameres: Hart Prods. Corp., N. Y. C., resistants.
Alkamine: Amalgamated Chemical Corp., Phila., Pa., textile detergents.
Alkaterge-O: Commercial Solvents Corp., N. Y. C., oil-soluble, surface-active agents.
Alka-Tex: Prov. Chem. Co., Prov., R.I., indust. alkali.
Alka-Wash.: Prov. Chem. Co., Prov., R.I., bottlers' alkali.
Alkazene: Dow Chemical Co., Midland, Mich., ar-dibromoethylbenzene.
Alkiron Blue: Ansbacher-Siegle Corp., Rosebank, S. I., N. Y., iron blue.
Alk-Li-Pruf: Electro Chemical Supply Eng. Co., Paoli, Pa., cement.
Alklor: Kolite Prods. Inc., Los Angeles, Calif., chlorine sanitizer.

Alk Oil: Alkydol Labs., Inc., Cicero, Ill., syn. drying oils.
Alkoflex: Alkydol Laboratories, Inc., Cicero, Ill., plasticizers.
Alkolene: Martin Dennis Co., Newark, N. J., tar inhibitor.
Alk-O-Mer: Alkydol Laboratories Inc., Cicero, Ill., high polymer emulsions.
Alkon: Du Bois Co., Cincinnati, Ohio, electrolytic cleaner.
Alkons: Mallinckrodt Chemical Wks., St. Louis, Mo., polyalkanolamine carbonates.
Alkor: The Atlas Mineral Products Co., Mertztown, Pa., cement.
Alkron: Eaton Chemicals, Inc., Los Angeles, Calif., insecticide.
Alkyl Acetylene see Acetylenic Hydrocarbons
Alkytall: Alkydol Labs Inc., Cicero, Ill., tall oil esters.
All American: Washburn Co., Chicago, Ill., gun finish.
ALLANTOIN 99
All Around: The Commercial Paste Co., Columbus, Ohio, cleanser & softener.
Allcote: Sherwin-Williams Co., Cleveland, paste paint primer.
Allegheny: Swift & Co., Chgo., wire drawing soap.
Allen: Rogers Chemical Corp., Detroit, Mich., paints.
Allen-germ: Allen Burns Co., Buffalo, N. Y., sanitizer.
Allen-Moore: Allen Electrolytic Cell Corp., Portland, Maine, electrolytic cells.
Allen-Pine: Allen Burns Co., Buffalo., N. Y., disinfectant.
Allen Shu-perserver: Allen Burns Co., Buffalo, N. Y., shoe polishes.
Allisite: Allis-Chalmers, Milwaukee, Wisc., cast iron.
All-Motor: Falk Corp., Milwaukee, Wis., gear motor.
ALLOXAN (Mesoxalylurea) 99
Alloy see Ferro Molybdenum
6 Alloy: Brush Beryllium Co., Cleveland, Ohio, beryllium alloy.
Alloy Anodes see Anodes, Metals and Alloys

ALLOYS 621
- **ABRASION RESISTING** 621
- **ALUMINUM** 621
- **BERYLLIUM** 621
- **BISMUTH** 621
- **CERIUM** 621
- **CHROMIUM** 621
- **COBALT** 621
- **COPPER** 621
- **FUSIBLE** 621
- **HEAT RESISTING** 621
- **IMPACT RESISTING** 621
- **LEAD** 621
- **MAGNESIUM** 621
- **MANGANESE** 621
- **MOLYBDENUM** 621
- **NICKEL** 621
- **NICKEL, CHROMIUM** 621
- **PRECIOUS METALS** 621
- **SILVER** 621
- **STAINLESS STEEL** 621
- **TITANIUM** 621
- **TUNGSTEN** 622
- **ZINC** 622

All-Purpose W: Diamond Alkali Co., Cleveland, Ohio, cleanser.
All-Sol: Jos. T. Ryerson & Son Co., Inc., Chicago, Ill., soldering flux.
Allterge: Wollen Chem & Supply Co., Paterson, N. J., cleaning powder.
ALLYL Alcohol see Alcohol Allyl
- **Aldehyde** see Acrolein
- **AMINE** 99
- **BROMIDE** 100
- **CAPROATE** 100
- **CAPRYLATE** 100
- **CHLORIDE** 100
- Ether see Ether Diallyl.
- **HEPTOATE** 100
- **IODIDE** 100
- **Isosulfocyanate** see Oil Mustard Artificial
- **ISOTHIOCYANATE** 100
- **ISOVALERATE** 100
- **MERCAPTAN** 100
- **THIOUREA** 100

Allylpyrocatecholmethylene Ether see Safrol
Almatox: Toch Bros., N.Y.C., paint remover.
Almond Oil see Oil Almond
Almor: Illinois Testing Labs. Inc., Chicago, Ill.
Alodine: Amer. Chem. Paint Co., Ambler, Pa., paint chem.
ALOIN 100
Alomel: Hoskins Mfg. Co., Detroit, Mich.
Alonite: The Carborundum Co., Niagara Falls, N. Y., aluminum oxide.
Aloyco: Alloy Steel Prods. Co. Inc., Linden, N. J., steel valves.
Alpcote: Amer. Lignite Prod. Co., Ione, Calif., commercial fertilizer.
Alpcotote: Amer. Lignite Prod. Co., Ione, Calif., alumina silicate clay.
Alperox C: Lucidol Division, Buffalo, N. Y.
Alpha compounds indexed under first word following alpha, e.g., Alpha Naphthol is listed as a-Naphthol, and is indexed under "N."
Alpha-Aminonaphthalene see Alphanaphthylamine
Alpha-Amino-Beta-Parahydroxyphenylpropionic Acid see Tyrosine
Alpha: Binney & Smith Co., N.Y.C., black pigment.
Alphabromo-Camphor see Camphor Monobromated
Alpha-Dinitrophenol see Dinitrophenol
Alpha-Diphenylthiourea see Thiocarbanilide
Alpha-Hydroxytoluene see Alcohol Benzyl
Alpha-Hydroxypropionitrile see Lactonitrile
Alpha Methylpyridine see Picoline
Alpha-Monochloropropolene see Allyl Chloride.
Alphanol: General Dyestuff Corp., N.Y.C., acid dye.
Alphapropenyldichlorohydrin see Dichlorohydrin
Alphapropylenechlorohydrin see Chlorohydrin
Alpha Tocopherol see Vitamin E.
Alpha-Toluonitrile see Benzyl Cyanide
Alphathon: National Research Corp., Cambridge, Mass., vacuum gage.
Alphatron: Vacuum Enging. Div., Cambridge, Mass., vacuum gage.
Alpine: United Clay Mines Corp., Trenton, N.J., ball clay.
Alpine Violet: Du Pont Co., Fine Chems Div., Wilmington, Del., aromatic chem.
Alpurin Wool-fat see Lanolin
Alromines: Alrose Chem. Co., Cranston, Prov., R. I., textile softeners.
Alropel: Alrose Chem. Co., Prov., R.I., water repellent.
Alropon S: Alrose Chem. Co., Prov., R.I., alcohol sulfate.
Alrosewet: Alrose Chem. Co., Prov., R.I., modified alcohol sulfate.
Alrosept: Alrose Chemical Co., Cranston, R.I., quaternary ammonium compound.
Alrosol: Alrose Chem. Co., Cranston, Prov., R. I., fatty amides.
Alroterge: Alrose Chem. Co., Cranston, Prov., R. I., detergents.
Alrowaxes S: Alrose Chem. Co., Prov., R.I., synthetic waxes.
Alset: Ironton Fire Brick Co., Ironton, O., refractory cement.
Alsilite: Mineralite Sales Corp., N.Y.C., clay.
Altax: R. T. Vanderbilt Co., N.Y.C., rub. accel.
Althein see Asparagine
Alum see Alum Potash
ALUM AMMONIA 100
- **AMMONIA CHROME** 101
- **CHROME** 101
- **Flowers** see Alum Potash
- **Meal** see Alum Potash
- **POTASH** 101
- **POTASH CHROME** 101
- **SODIUM** 101

Alumel: Hoskins Mfg. Co., Detroit, Mich., thermocouple alloy.
Alumerum: Reardon Industries Inc., Cincinnati, O., concrete hardener.
Aluminate: Gilbreath Chemical Co., San Fran., Calif., wood preservative.
Aluminall: Kepec Chem. Corp., Milwaukee, aluminum paints.
Alum-I-Niel: Nielco Chemicals, Detroit, Mich., acid cleaners.
Alumiprep: Nielson Chemical Co., Detroit, Mich., cleaner.
Alumon: Enthone, Inc., New Haven, Conn., plating on aluminum.
Alumox: Enthone, Inc., New Haven, Conn., oxidizing aluminum.
Alumina see Aluminum Oxide
ALUMINA ACTIVATED 101
- **Mordants** see Aluminum Sulfate, Aluminum Acetate, also Alums
- **HYDRATE** 102

ALUMINUM (Ingots, Shapes, etc.) 622
ALUMINUM, ACETATE BASIC 102
- **ACETATE, NORMAL** 102
- **AMINO ACETATE** 102
- **Ammonium Sulfate** see Alum Ammonia
- **BROMIDE** 102
- **CARBIDE** 102
- **CHLORIDE** 102
- **CHLORIDE, ANHYDROUS** 102
- **CHROMATE** 102
- **CITRATE** 103
- **Enamels** see Enamels Aluminum
- **Flake** see Aluminum Powder
- **FLUORIDE** 103
- **FORMATE** 103
- **FORMATE, BASIC** 103
- **FORMATE, 30% Solution** 103
- **GLUCONATE** 103
- **Hardeners** see Hardeners Aluminum
- **Hydrate** see Aluminum Hydroxide
- **HYDROXIDE** 103
- **HYDROXIDE, COLLOIDAL GEL** 103
- **IODIDE** 103
- **ISOPROPYLATE** 103
- **LACTATE** 103
- **LINOLEATE** 103
- **METAL** 103
- **NAPHTHENATE** 103
- **NITRATE** 104
- **OLEATE** 104
- **OXALATE** 104
- **OXIDE** 104
- **PALMITATE** 104
- **PASTE** 104
- **PHOSPHATE** 104
- **m-PHOSPHATE** 104
- **POWDER** 104
- **Potassium Sulfate** see Alum Potash
- **RESINATE** 104
- **Rhodanide** see Aluminum Sulfocyanate
- **SILICATE** 104
- **Soaps** see Aluminum Stearate
- **Sodium Sulfate** see Alum Sodium
- **STEARATE** 105
- **SULFATE** 106
- **Sulfocyanate** see Aluminum Sulfocyanide
- **SULFOCARBOLATE** 106
- **Thiocyanate** see Aluminum Sulfocyanide
- **Trihydrate** see Aluminum Hydroxide

Alunamel: Gibbs Paint Mfg. Co., Euclid, O., aluminum paint.
Alundum: Norton Co., Worcester, Mass., aluminum oxide.
Alva: Van Ameringen-Haebler, Inc., N.Y.C., flavoring materials.
Alvar: Shawinigan Prods. Corp., N.Y.C., resin.
Alvasol: Synthron, Inc., Ashton, R. I., text. finishing agts.
Alvco: American Lithographic Varnish Co., Inc., Kearny, N.J., varnishes.
Alwax: Amer. Cyanamid Co., N. Y. C., sizes.
Amalie: L. Sonneborn Sons, N.Y.C., bronsing liq.
Amate: E. I. du Pont de Nemours & Co., Grasselli Dept., Wilmington, Del., weed killer.
Amazine: N. Y. Color & Chem. Co., Belleville, N. J., basic dyes.
Amazo: New York Color & Chem. Co., Belleville, N. J., acid dyes.
Amazon Cleanser: Swift & Co., Chgo., cleaner & cleanser.
Amberlite: Rohm & Haas Co., Phila., Pa., resin adhesives.
Amber Oil see Oil Amber
Amber Oil Soap: Hercules Kalon Co. Inc., Boston, Mass.
AMBERGRIS 106
Amberol: Rohm & Haas Co., Phila., Pa., modified phenolic resins.
Amboy: United Clay Mines Corp., Trenton, N.J., refract. bond.
Amboyna see Oil Cloves
Ambrene: Du Pont Co., Fine Chems Div., Wilmington, Del., aromatic chem.
Ambrex: Amer. Dyewood Co., N.Y.C., colors.
Ambrex: N. Y. Color & Chem. Co., Belleville, N. J., flushed pigments.
Ambrite: Chapman Chemical Co., Memphis, Tenn., insecticides.
Ambrocide: Chapman Chemical Co., Memphis, Tenn., insecticide.
Ambronia: Fritzsche Bros., Inc., N. Y. C., syn. perfume base.
Ambrox: Titanium Alloy Mfg Co., Niagara Falls, onacifier for ceramics
Amco: American Solder & Flux Co., Phila., Pa., fluxes.
Amdegg: Emulsol Corp., Chicago, Ill., egg albumen.
Amececol: Amecco Chemicals, Inc., Rochester, N.Y., detergent.
Amerchol: Amer. Cholesterol Prods. Co. Inc., Milltown, N. J., emulsifiers.
American: Amer. Agar & Chem. Co., San Diego, Calif., agar.
American: Buffalo Meter Co., Buffalo, N. Y., water meters.
American: Sherwin-Williams Co., Cleveland, white lead.
American Ashes see Potassium Carbonate
Amer Ball Blue: Amer. Cyanamid Co., N. Y. C., laundry blue.

American Beauty: Los Angeles Chem. Co., Los Angeles, Calif., knapsack dusters.
American Standard: Chas. Schaeffer & Son of N. J., Inc., salt rock.
American Thistle: P. R. Dreyer, Inc., N.Y.C., perfume for paradichlorbenzene.
Amerilith: American Lithographic Varnish Co., Inc., Kearny, N. J., syn. varnishes.
Ameroid: American Plastics Corp., N.Y.C., casein plastic.
Amer-ol: E. F. Drew & Co., Inc., N. Y. C., automotive chemicals.
Amerseal: Anchor Hocking Glass Corp., Lancaster, Ohio, bug caps.
"American": Oliver United Filter Inc., N.Y.C., vacuum disc filter.
Amiantus see Asbestos
Amicrol: Heyden Chem. Corp., Aktivin Div., N. Y. C., preservative.
AMIDES 106
Amido Mercuric Chloride see Mercury Ammoniated
Amidoethane see Ethylamine
Amidol see Diaminophenol Hydrochloride
p-AMIDOPHENOL 107
AMIDO PHENOL HYDROCHLORIDE 107
p-AMIDOPHENOL HYDROCHLORIDE 107
Aminate see Aminoguanidine Bicarbonate
Amineo: Amer. Instrument Co., Inc., Silver Spring, Md., lab. equipment.
AMINES see also Monoethanolamine, Ethylene Diamine, Monoamylamine, Diamylamine, Acetoacetanilide, etc. 107
p-AMINOACETANILIDE 107
AMINOAZOBENZENE HYDROCHLORIDE 107
AMINOAZOTOLUENE 107
Aminobenzene see Aniline
p-Aminobenzenesulfonamide see Sulfanilamide
p-Amino-benzoic-Acid Ethylester see Ethyl p-Aminobenzoate
2-Aminobenzothiazole see Aminobenzothiazole
Aminobenzoyldiethylaminoethanol Hydrochloride see Procaine Hydrochloride
AMINOBENZOTHIAZOLE 107
2 AMINO-1-BUTANOL 107
Aminocumene see Cumidine
Aminodichlorobenzene see Dichloraniline
Aminodimethylbenzene see Xylidines Mixed
Aminoethane see Ethylamine
p-AMINODIETHYLANILINE HYDROCHLORIDE 107
p-AMINO DIMETHYANILINE 107
o-AMINO DIPHENYL 107
2-AMINOETHYLETHANOLAMINE 107
B-Amino Ethyl Glyoxaline see Histamine
AMINOETHYL MORPHOLINE 107
2 AMINO-2 ETHYL-1, 3 PROPANEDIOL 107
Aminoform see Hexamethylenetetramine
AMINO GUANIDINE BICARBONATE 107
2-AMINO HEPTANE 108
a-Amino-B-Iminazolylpropionic Acid see Histidine Monohydrochloride
a-Amino Isocaproic Acid see Leucine
Amino-Isopropylbenzene see Cumidine
Aminomethane see Methylamine
2-AMINO-2 METHYL-1, 3 PROPANEDIOL 108
2-AMINO-2-METHYL-1-PROPANOL 108
2-Amino-6-Oxypurine see Guanine
m-AMINOPHENOL 108
o-AMINOPHENOL 108
o-AMINOPHENOL HYDROCHLORIDE 108
AMINOPHENOL SULFATE 108
Aminophen see Aniline
1-Amino-2-Phenylethane see b-Phenylethylamine
Aminophylline: Amer. Pharmaceutical Co., N.Y.C., theophylline ethylene diamine.
AMINOPHYLLIN 108
2-AMINO PYRIDINE 109
AMINOPYRINE 109
1-Aminosuccinamic Acid see Asparagine
AMINOTHIAZOLE 109
Thiourea see Thiosemicarbazide
Aminotoluene see Toluidines Mixed
Aminoxylene see Xylidines Mixed
Ammo Clean: Apex Motor Fuel Co., Chgo., floor cleaner.
AMMONIA Alum see Alum Ammonia
ANHYDROUS 109
AQUA 110
Chrome Alum see Alum Ammonia Chrome
Crystals see Ammonium Carbonate
OXIDATION EQUIPMENT 622
Soap see Ammonium Oleate
Water see Ammonia Aqua
Ammoniak see Ammonium Chloride
Ammoniated Benzamo: Midland Chem. Labs., Inc., Dubuque, Ia., dry-clean. solv.
Ammoniated Mercury Chloride see Mercury Ammoniated
AMMONIATES, ORGANIC 110
Ammonio Cupric Sulfate see Copper Ammonium Sulfate
Ammonioferric Citrate see Iron and Ammonium Citrate
Oxalate see Iron and Ammonium Oxalate
Sulfate see Iron and Ammonium Sulfate
Ammonioformaldehyde see Hexamethylenetetramine
AMMONIUM ACETATE 110
ALGINATE see also ALGIN 111
ALKYL PHOSPHATES 111
BENZOATE 111
BIBORATE 111
Biborate see Ammonium Borate
BICARBONATE 111
BICHROMATE 111
BIFLUORIDE 111
BINOXALATE 111
Biphosphate see Ammonium Phosphate Mono
BITARTRATE 111
BORATE 111
Borofluoride see Ammonium Fluoborate
BROMIDE 111
Carbamate see Ammonium Carbonate
CARBONATE 112
CHLORIDE 112
CHROMATE 113
CITRATE 113
Dichromate see Ammonium Bichromate
ETHYL PHOSPHATE 113
FERROCYANIDE 113

AMMONIUM ACETATE (cont'd)

FLUOBORATE 113
FLUORIDE see also Ammonium Bifluoride 113
FORMATE 113
GLUCONATE 113
Hydrate see Ammonia Aqua
Hydrogen Carbonate see Ammonium Bicarbonate
Hydrogen Sulfide see Ammonium Sulfide
Hydrosulfide see Ammonium Sulfide
Hydroxide see Ammonia Aqua
HYPOPHOSPHITE 113
ICHTHYNAT 113
ICHTHYOSULFONATE see Ichthyol
IODIDE 113
LACTATE 113
LINOLEATE 113
MOLYBDATE 113
Muriate see Ammonium Chloride
NAPHTHENATE 113
NITRATE 113
OLEATE 113
OXALATE 114
PERCHLORATE 114
PERIODATE 114
PERSULFATE 114
PHENOLSULFONATE 114
PHOSPHATE, DI 114
PHOSPHATE, HEMIBASIC 114
PHOSPHATE, MONO 114
PHOSPHATE, TRI 114
Rhondate see Ammonium Sulfocyanide
RICINOLEATE 114
SALICYLATE 114
SILICOFLUORIDE 114
STEARATE 115
SULFAMATE 115
SULFATE 115
SULFIDE 116
SULFITE 116
Sulfocarbolate see Ammonium Phenolsulfonate
Sulfocarbolate see Ammonium Phenolsulfonate
Sulfocyanate see Ammonium Sulfocyanide
SULFOCYANIDE 116
SULFORICINOLEATE 116
TARTRATE 116
Tetraborate Acid see Ammonium Borate
THIOCYANATE see also Ammonium Sulfocyanide 116
THIOGLYCOLATE 116
THIOSULFATE 117
UNDECYLENATE 117
VALERATE 117
VANADATE 117
m-VANADATE 117
Amodyn: Atlas Powder Co., Wilmington, Del., explosives.
Amofos: A. R. Maas Chemical Co., South Gate, Calif., sodium tripolyphosphate.
Amoil: Distillation Prod. Industries, Rochester, N. Y., pump fluid.
Amolac: Atlas Mineral Prods. Co., Mertztown, Pa., acid & alkali-resist. paint.
Amoline: Amalgamated Chem Corp., Phila., Pa., textile weighters and lubricants.
Ampac: Allis-Chalmers, Milwaukee, Wisc., welders.
Ampacet: Amer. Molding Powder & Chem. Corp., Brooklyn, N. Y. C., molding.
Ampco: Atlas Mineral Prods. Co., Mertztown, Pa., boiler cement.
Ampcoloy Alloys: Ampco Metal, Inc., Milwaukee, Wis., bronzes.
AMPHETAMINE 117
Amphibole see Asbestos
Ampkote: Atlas Mineral Prods., Mertztown, Pa., corrosion-proof lining.
Amplitone: Fritzsche Bros. Inc., N. Y. C., perfume fixative.
Amprinke: Sun Chemical Corp., L. I. City, N. Y., printing inks.
Amprozyme: Jacques Wolf & Co., Passaic, N. J., enzymic prod.
Ampvar: Atlas Mineral Prods. Co., Mertztown, Pa., protective coatings.
Amres: Amer-Marietta Co., Seattle, Wash., resins.
Amsco: Amer. Brake Shoe Co., Chicago Heights, Ill., castings.
Amsco: American Mineral Spirits Co., N.Y.C., petroleum solvents.
Amsco Solv: Amer. Mineral Spirits Co., N. Y. C., aromatic solvent.
Amsterdam: R. W. Greeff & Co., N.Y.C., quinine and salts.
Amurseal: Anti Hydro Waterproofing Co., Newark, N J., foundation coating.

AMYL

AMYL ACETATE 117
ACETATE (Sec.) 118
Acetic Ester see Amyl Acetate
Alcohol Normal see Alcohol Amyl Normal also Oil Fusel
AMINE 118
BENZOATE 118
n-AMYL BROMIDE 118
BROMIDE, ISO 118
BROMIDE (Secondary) 118
AMYL BUTYRATE 118
CAPRATE 118
CHLORIDE (Iso) 118
CHLORIDE (Normal) 118
CHLORIDE (Tertiary) 118
CHLORIDES, MIXED 118
a-AMYL CINNAMIC ALDEHYDE 118
AMYL-2, 4-DICHLOROPHENOXY ACETATE 118
FORMATE 118
Hydride see Pentane
Hydroxide see Alcohol Amyl Normal
IODIDE, ISO 118
IODIDE (Normal) 118
Isobromide see Amyl Bromide Iso
LAURATE 118
MERCAPTAN 118
MERCAPTAN, Tert 119
MYRISTATE 119
NAPHTHALENES (Mixed) 119

AMYL-2 (cont'd)
Naphthalenes see Monoamyl Naphthalene, Diamyl Naphthalene
OLEATE 119
Oxide see Amyl Ether
PHENOL 119
o-AMYL PHENOL 119
p-Secondary-AMYL PHENOL 119
p-Tert-AMYL PHENOL 119
AMYL PHOSPHATE 119
PROPIONATE 119
SALICYLATE 119
STEARATE 119
Amylase see Diastase
Amylene Dichloride, see Dichloro Pentanes
Hydrate Dimethylethyl Carbinol see Alcohol Amyl Tertiary
Amylic: Wallerstein Co. Inc., N. Y. C., enzyme.
Amylin see Dextrin
Amylum see Starch Corn
Anaesthesia Ether see Ether
Anaesthesin see Ethyl Aminobenzoate
Analytical Chemicals see Chemicals Analytical
Indicators see Indicators Analytical
ANALYTICAL REAGENTS, SPECIAL 483
Anchor: Barrett Div, Allied Chem. & Dye Corp., N. Y. C., asphalt.
Anchor: Solvay Sales Corp., N.Y.C., alkalies.
Anchor: Stauffer Chem. Co., N. Y. C., flowers of sulphur.
Anchor Brand: Williams & Co., Emeryville, Calif., iron oxide pigments.
Anchorglass: Anchor Hocking Glass Corp., Lancaster, Ohio, glassware.
Anchor-Rome: Iselin & Jefferson Co. Inc., N.Y.C., filters.
Anchorvac: Anchor Hocking Glass Corp., Lancaster, Ohio, metal vacuum caps.
Andok: Kano Standard Oil Co., N. Y. C., lubricating grease.
Andro M M & R: Magnus, Mabee & Reynard, N.Y.C., citronella substt.
Androgon: Biorganic Laboratories, Inc., B'klyn, N. Y., male hormone.
Anemone: Antoine Chiris Co., N.Y.C., perfume fixative.
Anethol see Chemicals Aromatic
ANETHOL 119
Anex: Infilco, Inc, Chicago, Ill., ion exchange.
Anex: Internat'l Filter Co., Chgo., ion exchange & adsorptive mat'ls.
Anexer: Infilco, Inc., Chicago, Ill., ion exchanger plants.
***An-fo:** Anfo Co., Oakland, Calif., fly spray base.
Angel Red see Iron Oxide Red
Angelobre: Wm. Zinsser & Co., N.Y.C., shellacs.
Anglesite Plumbrous Sulfate see Lead Sulfate Basic
Anhydre: Foy Electro-Chem Co., Ansonia, Conn., metal cleaning salt.
Anhydrous Ammonia see Ammonia Anhydrous
Antimonous see Antimony Oxide
Plumbic Acid see Lead Peroxide
Pyrophosphoric Acid see Acid Pyrophosphoric Anhydrous
Sodium Carbonate see Soda Ash
Anhydrox: Baroid Sales Div., National Lead Co, Los Angeles, Calif., decontaminant.
ANILINE 120
Chloride see Aniline Salt
Dyes see Dyes Vat; Dyes Sulfur; Dyes Azo, etc.; also Dyes
Acetate: Dyes Fur; Dyes Spirit Soluble, etc.
Hydrochloride see Aniline Salt
Oil see Aniline
SALT 120
SULFATE 120
Yellow see Aminoazobenzene
Animal Charcoal see Bone Black
Dip see Dips, Animal
Anime see Gum Congo, Gum Copal
Animi Gum see Gum Zanzibar
ANISIC ALDEHYDE 120
o-ANISIDINE 120
Anisoil see Methylphenyl Ether
ANISOLE see also **Methylphenyl Ether** 120
ANISOYL CHLORIDE 120
ANNATTO 120
Annidalin see Thymol Iodide
Annite: Quigley Co., Inc., N.Y.C., indus. cleaning matl.
Annotta see Annatto
Ano: General Dyestuff Corp., N.Y.C., dye for anodised aluminum.
Anode: The B. F. Goodrich Co., Akron, O., coatings.

ANODES

ANODES, BRASS 120
BRONZE 120
CADMIUM 120
COPPER 121
LEAD 121
METALS & ALLOYS, MISC. 121
NICKEL 121
SILVER 121
TIN 121
ZINC 121
Anodex: Lasalco, Inc., St. Louis, Mo., cleaner.
Anonized: Colonial Alloys Co., Phila., Pa., aluminum forms.
Ansbor: Ansbacher-Siegle Corp., Rosebank, S.I., N.Y., green pigment.
Ansico Reds: Ansbacher-Siegle Corp, Rosebank, S. I., N. Y., hansa rubines.
Ansol: U. S. Industrial Chemicals, Inc., N.Y.C., solvents.
Ansul: Ansul Chem. Co., Marinette, Wis., sulfur dioxide, methyl
Antacidin: see Calcium d-Saccharate
Antacitron: Worthington Pump & Machinery Corp., Harrison, N. J., ferrous alloy.
Antarctic: Wilson Marton Div., Phila., Pa., oleic acid.
Antarctic: The Neatsfoot Oil Refg. Corp., Phila., Pa., neatsfoot oils.
Antarox: Antara Products, Gen'l. Aniline & Film Corp., N. Y. C., surfactant.
Ant-foil: An-fo Mfg. Co., Oakland, Calif., ant exterminator.
ANTHELMINTICS 483
Antherosia: Firmenich & Co., N. Y. C., honeysuckle perfume specialty.
Anthion see Potassium Persulfate
ANTHRACENE 122
Oil see Anthracene
Anthracin Green Oil see Anthracene
Anthracyanine: General Dyestuff Corp., N. Y. C., acid dye.
Anthragen: General Dyestuff Corp., N. Y. C., lake dye.
Anthralan: General Dyestuff Corp., N. Y. C., acid dye.
ANTHRAQUINONE 122
Anthrasol: General Dyestuff Corp., N.Y.C., leuco vat ester.
ANTI-CAKING AIDS 483
Anticarbo: Cincinnati Oil Works Co., Cincinnati, Ohio, automotive oils.
ANTI-CARBONIZING COMPOUNDS 484
ANTI-CORROSION AGENTS, BRINE 484
Anti-Dust: Holmerden Co., Stratford, Conn., sweeping compound.
Antiebrin see Acetanilide
ANTI-FELTING AGENTS 484
Antifoam LF: Du Pont Co., Fine Chems. Div., Wilmington, Del., n-octanol.
ANTI-FOAMING COMPOUNDS 484
ANTI-FREEZE, ALCOHOL 484
FREEZE GLYCOL 484
FREEZE MASONRY 484
Anti-Friction: Link-Belt Co., Chicago, belt conveyor idler.
ANTI-FROTHING AGENTS, PAPER 484
TEXTILE 484
Anti-Gyp: Chicago Copper & Chemical Co., Blue Island, Ill., barium carbonate.
Anti Hydro. Webb Belting Co., Kansas City, Mo., belt cement.
Antilustrole: Warwick Chem. Co., W. Warwick, R.I., textile dullers.
Antimol: Seydel Chem. Co., Jersey City, N.J., preserv. for syrups, gum or fat emulsions, etc.
Antimonic Sulfide see Antimony Sulfide Golden
ANTIMONIAL LEAD 122
Glass see Antimony Sulfide
Antimonine see Antimony Lactate
Antimonite see Antimony Sulfide
Antimonous Bromide see Antimony Tribromide
Sulfate see Antimony Sulfate
Sulfide see Antimony Sulfide

ANTIMONY

ANTIMONY
Black see Antimony Sulfide
Bloom see Antimony Oxide
CHLORIDE see also **Antimony Trichloride** 122
Chloride Basic see Antimony Oxychloride
FLUORIDE 122
Glance see Antimony Sulfide
Gray see Antimony Sulfide
LACTATE 123
METAL 123
OXIDE 123
PENTACHLORIDE 123
Pentasulfide see Antimony Sulfide Golden
Perchloride see Antimony Pentachloride
Persulfide see Antimony Sulfide Golden
POTASSIUM TARTRATE 123
(Powder) see Metals Powder
Red see Antimony Sulfide Golden
Regulus see Antimony (metal)
SALT 123
SULFATE 123
SULFIDE 123
SULFIDE, GOLDEN 123
Sulfuret see Antimony Sulfide
TARTRATE 123
TRIBROMIDE 123
TRICHLORIDE see also **Antimony Chloride** 123
Trifluoride see Antimony Fluoride
TRI-IODIDE 123
Trioxide see Antimony Oxide
Trisulfate see Antimony Sulfate
Trisulfide see Antimony Sulfide
Yellow see Lead Antimoniate
ANTI-OXIDANTS 484
ANTI-OXIDANTS, GASOLINE 485
OIL 485
RUBBER 485
SOAP 485
Antinonnim: Dehls & Stein, Inc., fungicide.
ANTIPYRENE 123
BENZOATE 123
SALICYLATE 123
Antiracidol: R. F. Revson Co., N.Y.C., anti-oxidant.
ANTI-RUBBING AGENTS, TEXTILE 485
Anti-Rust see Inhibitors Corrosion; Oil Slushing; Rust Removers in Spec. Sect.
Anti-Rust Crystals: Feedwaters Inc., N.Y.C., corrosion inhibitor.
ANTI-RUSTING COMPOUNDS 485
Antisep A.P. Base: E. F. Houghton & Co., Philadelphia, Pa., cutting compound.
ANTI-SKINNING AGENTS, PAINTS 486
Anti-Slip: Geo. Callahan & Co., N.Y.C., belt dressing.
ANTI-SOFTENERS, RUBBER 486
Antisol: Herron Bros. & Meyer, Inc., Akron, O., inhibitor.
ANTI-SOOT COMPOUNDS 486
ANTI-SWELLING AGENTS, RUBBER 486
Antox: Du Pont Co., Rubber Chems. Div., Wilmington, Del., rubber antioxidant.
Antube: Buckeye Chem. & Spec. Co., N. Y. C., ant control.
Antydamp: Sherwin-Williams Co., Cleveland, O., damp proof paint.
Apache: Wyandotte Chems. Corp., Wyandotte, Mich., detergent.
Apaso: Jacques Wolf & Co., N. Y. C., fatty acid ester.
Apasol: Jacques Wolf & Co., Passaic, N. J., textile dyeing assistant.
Apco: Aurora Pump Co. Aurora, Ill., pumps.
Apcodyn: Atlas Powder Co., Wilmington, explosives.
Apcol: Atlas Powder Co., Wilmington, Del., permissible explosives.
Apcolene: Anderson-Prichard Oil Corp., Oklahoma City, dry-clean. solvent.
Apcothinner: Anderson-Prichard Oil Corp., Oklahoma City, paint diluent.
Apex: Atlas Powder Co., Wilmington, Del., quarry explosives.
Apex: Clehling Just Co., Paterson, N. J., CO_2 recorder.
Apex: Huron Milling Co. Inc., N. Y. C., pasting starch.
Apex: Uehling Instrument Co., Paterson, N.J., eco recorders.
Apechrome: Poughkeepsie Dyestuff Corp., Poughkeepsie, N.Y., chrome dyes.
Apeside: Poughkeepsie Dyestuff Corp., Poughkeepsie, N.Y., chrome dyes.
Appco: L. Sonneborn & Sons, N.Y.C., petrol. chemicals.

Apple-Lok: Westville Labs., Monroe Center, Conn., hormone spray.
App-L-Set: Dow Chem. Co., Midland, Mich., agric. chemicals.
Appramine: Warwick Chem. Co., W. Warwick, R. I. City, N. Y., cationic softener.
Appratex: Warwick Chem. Co. Div., Warwick, R. I., textile softeners.
Appretan: Gen'l Dyestuff Corp., N.Y.C., non-slip finish.
Appretole: Warwick Chem. Co., W. Warwick, R.I., dyestuff dispersants.
APRON® 622
Aptex: Adhesive Prods. Corp., N.Y.C., plastic latex.
Aqrapel: L. Sonneborn Sons, N.Y.C., waterproof gum.
Aqua Ammonia see Ammonia Aqua
Ammonium see Ammonia Aqua
Fortis see Acid Nitric
Regia see Acids Nitric and Muriatic
Aqua Seal: Penetone Co., Tenafly, N. J., carbon remover.
Aqua Sol: Wayne Chemical Products Co., Detroit, Mich., grinding coolant.
Aquadag: Acheson Colloids Corp., Port Huron, Mich., colloidal graphite.
Aquadam: Johns-Manville Corp., N.Y.C., waterproof compn.
Aquaflux: Internat'l Products Corp., Trenton, N.J., wetting agent.
Aqua-Kal: Kali Mfg. Co., Phila., Pa., penetrant.
Aqua-Lac: H. Adler & Son, Phila., casein paint.
Aqualine Blue: Whittaker Clark & Daniels Inc., N. Y. C., color.
Aqualized Gum: Glyco Products Co., Inc., B'klyn, N. Y., gum tragacanth & karaya.
Aquagel: Baroid Sales Co., Los Angeles, bentonite.
Aquamers: Amer. Polymer Corp., Peabody, Mass., water soluble resins.
Aquanite: Industrial Finishes Dept., Atlas Powder Co., Stamford, Conn., lacquers & stains.
Aquanon: Price Fire & Water Proofing Co., Poughkeepsie, N.Y., water proofing process.
Aqua Nuchar: West Virginia Pulp & Paper Co., N.Y.C., water purification.
Aquaplex: The Resinous Prods. & Chem. Co., Phila., synthetic emulsion type paint base.
Aquaresin: Glyco Prods. Co., Bklyn., lubricant, plasticizer.
Aquaromes: Felton Chem. Co., Bklyn., N.Y., water soluble perfume oils.
Aquaset: Bowers Printing Ink Co., Chicago, Ill., ink.
Aquasist: Providence Chem. Co., Prov., R.I., waterproof gums.
Aquasist Gi: Providence Chem. Co., Prov., R.I., spot-proofing comp.
Aquasol: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., sulphonated oils.
AquaSuds: Hartman-Leddon Co., Philadelphia, Pa., liquid soap.
Aquatex Closure: Bemis Bro. Bag Co., St. Louis, Mo., waterproof closure.
Aquatower: The Marley Co., Inc., Kansas City, Kansas, small-capacity cooling tower.
Aquawax: Concord Chemical Co., Phila., Pa., emulsifiable wax.
Aquazine: Beacon Co., Boston, Mass., dispersion agt.
Aquiflux: Special Chemicals Corp., N.Y.C., solder flux.
Aquinite see Chloropicrin
Arabic Gum see Gum Arabic
Aracar: Esso Standard Oil Co., N. Y. C., journal oils.
Arachis Oil see Oil Peanut
Aragonite see Calcium Carbonate
Arama: Allied Raw Materials Co. Inc., N. Y. C., raw materials.
Aramawax: Allied Wax & Oil Prods. Corp., N. Y. C., waxes.
Arapen: Esso Standard Oil Co., N. Y. C., lime-base greases.
Arasan: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., seed disinfectants.
"Arboneeld": E. I. du Pont de Nemours & Co., Ammonia Dept., Wilmington, Del., urea-formaldehyde comp.
Arbor Wax: George Chemical Co., Boston, Mass., floor polish.
Arcadian: Barrett Div, Allied Chem. & Dye Corp., N. Y. C., nitrate of soda.
Archil see Orchil Extract and Cudbear
Arcilla see Argols
Arcoxon: The Arco Co., Cleveland, Ohio, lacquers.
Arctic Crystal Flakes: Colgate-Palmolive-Peet Co., Jersey City, text. soap.
Arctic: The Neatsfoot Oil Refg. Corp., Phila., Pa., neatsfoot oils.
Arctic: Wilson Marton Div., Phila., Pa., oleic acid.
Arcy: Wallerstein Co., Inc., N.Y.C., finishing agent.
Arcyloid: Rohm & Haas Co., Phila., synth. resin.
Aresco: Monsanto Chem. Co., St. Louis, text. wetting out agt.
Aresket: Monsanto Chem. Co., St. Louis, fruit cleaner.
Aresklene: Monsanto Chem. Co., St. Louis, emulsifying agt.
Arfax: Rhodes Chemical Corp., Plainfield, N. J., insecticide powder.
Arflex: Amer. Resinous Chems. Corp., Peabody, Mass., resin emulsion.
Arflex: Amer. Resinous Chem. Corp., Peabody, Mass., acrylic emulsion.
Argentum see Silver
Argil see Argols
Argilla see Clay China, Kaolin
ARGININE 123
Argo: Corn Prods. Refining Co., N.Y.C., var. starches.
Argol: W. A. Wood Co., Boston, Mass., soluble cutting oil.
ARGOLS 123
ARGON see also Rare Gases 124
Argosite: United Clay Mines Corp., Trenton, N.J., bentonite.
Argoton see Cinchopen
Aridclear: Anti-Hydro Waterproofing Co., Newark, N. J., masonry dampproofer.
Aridex: Du Pont Co., Organic Chem. Dept., Wilmington, text. finish, water repellent.
Aridifier: Logan Engineering Co., Chicago, Ill., air separator.
Aridol: Missouri Paint & Varnish Co., St. Louis, Mo., colorless waterproofing.
Aridtite: Anti-Hydro Waterproofing Co., Newark, N.J., damp-proof. comp.
Aridzone: Arizona Mineral Corp., Yuma, Ariz., zeolite.
Aristocrat: Huntington Labs, Inc., Huntington, Ind., deodorant blocs.
Aristol see Thymol Iodide
Aristowax: Petroleum Specialties, Inc., N. Y. C., paraffin waxes.
Armelene: A. R. Maas Chem Co., Los Angeles, trisodium phosphate.
Ariacel: Atlas Powder Co., Wilmington, Del., Polyhydric Alcohols.
Ariamec: Atlas Powder Co., Wilmington, Del., Polyhydric Alcohols.
Arlex: Atlas Powder Co., Wilmington, Del., sorbitol solutions.
Arlinide: Arlin Chemical Co., Inc., Elizabeth, N. J., depilatory.
Arm & Hammer: Church & Dwight, N.Y.C., sodas.
Armac: Armour & Co., Chicago, Ill., amine acetate salts.
Arm-glass: The Armstrong Co., Chicago, Ill., glazing compd.
Armeena: Armour & Co., Chicago, Ill., aliphatic amines.
Armenian Bole see Iron Oxide Red
Armid: Armour & Co., Chicago, Ill., aliphatic amides.
Armite: Spaulding Fibre Co., Inc., Tonawanda, N.Y., thin insulation.
Armofos: A. R. Maas Chem. Co., South Gate, Calif., sodium tripolyphosphate.
Armol: A. R. Maas Chemical Co., South Gate, Calif., monomethyl paramidophenol sulfate.
Armolac: L. Sonneborn Sons Inc., N.Y.C. Acid Alkali & Fume Resistant coating.
Armortop: Anti-Hydro Waterproofing Co., Newark, N.J., surface hardener.
Armowax: Armour & Co., Chicago, Ill., syn. wax.
Armorweld: Penn. Crusher Co., Phila., Pa., roll crusher.
Arnatto see Annatto
Arnaudon's Green see Chromium Phosphate
Arneels: Armour & Co., Chicago, Ill., aliphatic amides.
Arnold: United Clay Mines Corp., Trenton, N.J., washed China clay
Arnotta see Annatto
Aro: Sachs Mfg. Co., Pittsburgh, Pa., petroleum.
Aroban Gum see Gum Aroban

AROCHEM: *U. S. Industrial Chemicals, Inc.*, 60 East 42nd st., New York 17, N. Y. Murray Hill 2-6700

Synthetic resins of the modified phenolic and maleic types for paints, varnishes, lacquers, inks, decorative and protective coatings, manufactured by U. S. Industrial Chemicals, Inc., New York City.

ARODURE: *U. S. Industrial Chemicals, Inc.*, 60 East 42nd Street, New York 17, N. Y. Murray Hill 2-6700

Urea-formaldehyde resins for use in protective and decorative coatings; manufactured by U. S. Industrial Chemicals, Inc., New York City.

AROFENE: *U. S. Industrial Chemicals, Inc.*, 60 East 42nd st., New York 17, N. Y. Murray Hill 2-6700

Synthetic resins of the pure phenolic type for the paint, varnish, ink, decorative and protective coatings and paper field, manufactured by U. S. Industrials Chemicals, Inc., New York City.

AROFLAT: *U. S. Industrial Chemicals, Inc.*, 60 East 42nd Street, New York 17, N. Y. Murray Hill 2-6700

Special alkyd resin designed for use in high quality flat, eggshell and semi-gloss wall paints, also for wall primers and sealers; manufactured by U. S. Industrial Chemicals, Inc., New York City.

Aroclor: Monsanto Chem. Co., St. Louis, chlorinated diphenyl plastics.
Arodure: U. S. Industrial Chems. Inc., N. Y. C., urea-formaldehyde resins.
Arofat: U. S. Industrial Chems., Inc, N. Y. C., resin.
Arofene: U.S. Industrial Chems. Inc., N.Y.C., resins.
Aromatic Chemicals see Chemicals Aromatic; also Perfumes; Oils
Essential; Deodorants; Flavors
Naphthas see Naphthas Aromatic
Resins see Resins Aromatic
Aro Lene 1060: C. P. Hall Co., Akron, O., plasticizer.
Arome, fritzbro: Fritzsche Bros. Inc., N. Y. C., flavor base.
Aromex: J. M. Huber Corp., N.Y.C., carbon black.

AROPLAZ: *U. S. Industrial Chemicals, Inc.*, 60 East 42nd st., New York 17, N. Y. Murray Hill 2-6700

Synthetic resins of the alkyd type, pure and modified, oxidizing and nonoxidizing for paints, lacquers, printing inks, vinyl films, decorative and protective coatings, manufactured by U. S. Industrial Chemicals, Inc. Available in solution; some types supplied at 100% solids.

Aropols: Aromatic Prods. Inc., N.Y.C., deodorants for polishes.
Arrostocrat: Morningstar, Nicol, Inc., N.Y.C., potato starch.
Arox: Esso Standard Oil Co., N. Y. C., fluid lubricants.
Arquads: Armour & Co., Chicago, Ill., quaternary ammonium salts.
ARRHENAL see also Sodium Methylarsenate 124
Arrodynon see Ethyl Chloride
Arroplas: U.S. Industrial Chems, Inc., N.Y.C., resins.
Arrow: National Soap & Chem. Co., Minneapolis, Minn., coco base liquid.
Arrow Borax: Swift & Co., Chgo., laundry soap.
ARROWROOT 124
Arrowstar: Morningstar, Nicol, Inc., N.Y.C., starch.
Arrow TX: J. M. Huber Corp., N.Y.C., carbon black.
Arsdales: Cosmetic Mfg. Sales Co., Chicago, Ill., perfumes.
Arseco: Riverside Chem., Co., Inc., No. Tonawanda, N. Y., cleaning comps.
ARSENIC 124
Acid Anilid see Acid Arsanilic
Bisulfide see Arsenic Red
Disulfide see Arsenic Red
IODIDE 124
METAL 124
Pentoxide see Acid Arsenic
RED 124
SULFIDE, YELLOW 124
Tersulfide see Arsenic Sulfide Yellow
TRICHLORIDE ANHYDROUS 124
Tri-Iodide see Arsenic Iodide
Trioxide see Arsenic White
Trisulfide see Arsenic Sulfide Yellow
WHITE 124
Arsenious see Arsenous

Arsenol: Sherwin-Williams Co., Cleveland, agric. insecticide.
Arsenous Anhydride see Arsenic White
Arsenous Chloride see Arsenic Trichloride
Arsenous Iodide see Arsenic Iodide
Arsenous Oxide see Arsenic White
Arsenous Sulfide see Arsenic Sulfide Yellow
Art-Colors: Alabastine Paint Prod., Chicago, Ill., artist's water paint.
Artex: S. S. Rubber Cement Co., Chicago, Ill., rubber cement.
Artic: Du Pont Co., Wilmington, refrigeration methyl chloride.
Artic Essence see Methyl Chloride
Artificial Blue see Copper Carbonate Blue
Artificial Cinnabar see Mercury Sulfide Red
Artificial Oil of Almonds see Benzaldehyde
Artificial Ultramarine see Ultramarine Blue
Artificial Leather see Leather Artificial
Artificial Malachite see Copper Carbonate
Artificial Oil of Ants see Furfural
Artificial Oil of Bitter Almonds see Nitrobenzene
Artificial Wool see Fibers Synthetic
Artisil Direct: Sandoz Chem. Wks., Inc., N. Y. C., acetate dyestuffs.
Artistain: Sherwin-Williams Co., Chicago, Ill., stains.
Artists Pigments: Collway Colors Inc., Paterson, N. J., dry colors.
Arwax: Amer. Resinous Chem. Corp., Peabody, Mass., coatings.
Aryl Acetylene see Acetylenic Hydrocarbons
Asafoetida see Crude Drugs
Asarcoloy: Amer. Smelting & Refining Co., N.Y.C., alloys.
Asatco: Amer. Smelt. & Ref. Co., N.Y.C., mineral pigments.
Asbestite: Johns-Manville Corp., N.Y.C., roof cement.
Asbestocel: Johns-Manville Corp., N.Y.C., pipe insulation & blocks.
Asbestomass: H. Reeve Angel & Co., Inc., N. Y. C., filtermass.
Asbestoment: Johns-Manville Corp., N.Y.C., fireproofing cable coating.
ASBESTOS 124
FOR FILTERING 622
MOLDED 622
Asbestos-Sponge: Johns-Manville, N.Y.C., insulat. matl.
Asco: Automatic Switch Co., Orange, N. J., switches, valves, etc.
Asco Switches: Automatic Switch Co., Orange, N. J.
Aseptoform: R. W. Greeff & Co., N.Y.C., mold. prevent.
Ashalite: Swift & Co., Chgo., laundry soda.
Ash Grove: Ash Grove Lime & Portland Cement Co., Kansas City, Mo., calcium carbonate.
Ashland: North American Refractories Co., Cleveland, O., fire clay brick.
Ashveyor: Brady Conveyors Corp., Chicago, Ill.
ASPARAGINE 125
Asparamide see Asparagine
Asphalt see Asphaltum and Coatings, Pipe
ASPHALT EMULSIONS 486
ASPHALTUM 125
ASPIDIUM OLEORESIN 125
Aspirin see Acid Acetylsalicylic
Asplit Cement: Penn. Salt Mfg. Co., Phila., acidproof cement.
ASSISTANTS, BLEACHING 486
KIER 486
MERCERIZING 486
VAT PRINTING 486
Astec SL: Associated Concentrates, Inc., Woodside, L. I., antioxidant.
Assistex: Takamine Lab., Inc., Clifton, N. J., drycleaning soap
Astracel: General Dyestuff Corp., N.Y.C., acid dye.
Astralucive Brand: Argenta Products Co., Eastport, Me., pearl essence.
Astrol: Gen'l Dyestuff Corp., N.Y.C., acid dye.
Astrolith: Chem. & Pigment Co., Balto., Md., lithopone.
Astrotone: E. I. du Pont de Nemours & Co., Organ. Chems. Dept., Wilmington, Del., syn. musk.
Asymmetric Propylene Chlorohydrin see Chlorohydrin
Atalacide: Chipman Chem. Co., Inc., Bound Brook, N. J., chlorate weed killer.
Atco: Amer. Tar Co., Seattle, Wash., asphalt coatings & cements.
Atco Bindtex: Atlantic Chemical Co., Inc., Centredale, R.I., textile agents.
Atco Carbowet: Atlantic Chemical Co., Inc., Centredale, R.I., carbonizing penetrants.
Atco Printex: Atlantic Chemical Co., Inc., Centredale, R.I., textile printing gum.
Atco Vat Gum: Atlantic Chemical Co., Inc., Centredale, R.I., thickener for vat printing.
Atcodri: Atlantic Chemical Co., Inc., Centredale, R.I., water repellants.
Atcofix: Atlantic Chemical Co., Inc., Centredale, R.I., color fixing agent.
Atcolene: Atlantic Chemical Co., Inc., Centredale, R.I., textile detergent.
Atcopen: Atlantic Chemical Co., Inc., Centredale, R.I., textile penetrating agent.
Atcupon: Atlantic Chemical Co., Inc., Centredale, R.I., textile detergent.
Atcosoft: Atlantic Chemical Co., Inc., Centredale, R.I., textile softeners.
Atcosol: Atlantic Chemical Co., Inc., Centredale, R.I., detergent assistants.
Atcosolve: Atlantic Chemical Co., Inc., Centerdale, R.I., textile cleaner.
Atcosyn: Atlantic Chemical Co., Inc., Centredale, R.I., syn. detergent.
Atcotal: Atlantic Chemical Co., Inc., Centredale, R.I., sulfonated softeners.
Atcotone: Atlantic Chemical Co., Inc., Centredale, R.I., textile softening agent.
Atcowet: Atlantic Chemical Co., Inc., Centredale, R.I., wetting agents.
Atex: Adhesive Prods. Corp., N.Y.C., latex cement.
Atfa: Sunnyside Oil Co., Chicago, Ill., pure gum turpentine.
Atlacide: Chipman Chemical Company, Inc., Bound Brook, N.J., weed killer.
Atlas: Atlas Mineral Prods. Co., Mertztown, Pa., cements, acid-proof.
Atlas: H. Kohnstamm & Co., Inc., N.Y.C., certified colors & flavors.
Atlas A: Chipman Chemical Co., Inc., Bound Brook, N.J., weed killer.
Atlastasol: Atlas Mineral Prods. Co., Mertztown, Pa., protective coatings.
Atlastavon: Atlas Mineral Prods. Co., Mertztown, Pa., corrosion-proof linings.
Atlastic: Atlas Mineral Prods. Co., Mertztown, Pa., protective coatings.
Atlastiseal: The Atlas Mineral Products Co., Mertztown, Pa., triple membrane material for concrete tanks.
Atlox: Atlas Powder Co., Wilmington, Del., agricultural parasiticides.
Atomite: H. N. Richards Co., Trenton, N.J., calcium carbonate.
Atomite: Thompson-Weinman Co., N.Y.C., extender pigment.
Atomite: C. K. Williams & Co., Emeryville, Calif., calcium carbonate.
ATROPINE 125
Atta-Boy: Nicico Chemicals Inc., Detroit, Mich., maintenance cleaner.
Attaclay: Attapulgus Clay Co., Phila., Pa., insecticide carrier.
Atta-Girl: Nicico Chemicals Inc., Detroit, Mich., laundry compound.
Attasol: Attapulgus Clay Co., Phila., Pa., colloidal mineral.
Aubepine see Chemicals Aromatic
Auragreen: Mallinckrodt Chem. Wks., St. Louis, green dye.
Auramine: General Dyestuff Corp., N.Y.C., basic dye.
Aurantiol: Givaudan-Delawanna, Inc., N.Y.C., perfume specialty raw matls.
Aurantium: Fritzsche Bros. Inc., N. Y. C., basic aromatic.
Auric Chloride see Gold Chloride
Auric Cyanide see Gold Cyanide
Auric Hydroxide see Gold Hydroxide
Auricome see Hydrogen Peroxide
Aurin see Acid Rosolic
Aurora Yellow see Cadmium Sulfide
Austin: Wright-Austin Co., Detroit, Mich., separators.
Australian Bark see Wattle Bark
AUTOCLAVES, INDUSTRIAL 622
Autojector: Sharpes Corp., Phila., Pa., centrifuge.
Auto-klean: Cuno Engineering Co., Meriden, Conn.
Auto-Lux: Advance Paint Company, Indianpolis, Ind., automotive enamel.
Automat: Apex Motor Fuel Co., Chgo., cutting oil.
AUTOMATIC BURETTES 622
AUTOMATIC PIPETTES 622
AUTOMOBILE SPECIALTIES 486
Automotive Extreme Pressure Bases see Extreme Pressure Bases
Autoset: Bristol Co., Waterbury, Conn., controller.
Autotone: Uncle Sam Chem. Co. Inc., N. Y. C., cleaner.
Auxanine: General Dyestuff Corp., N. Y. C., improving light fastness of basic dyes.
Auxanol: General Dyestuff Corp., N. Y. C., dyeing asst. for acid dyes on leather.
Avalon: McCann Chemical Co., Louisville, Ky., heavy duty cleaner.
Avitone: Du Pont Co., Fine Chems. Div., Wilmington, Del., fiber lubricant.
Avitox: Du Pont Co., Wilmington, sulf. fatty alcohol.
Avolin: Fritzsche Bros., N.Y.C., perfume fixative.
Avryllis: Fritzsche Bros., N.Y.C., synthetic lilac base.
Axivane: Joy Mfg. Co., Pittsburgh, Pa., fans.
AZO BENZENE 125
Azo: Amer. Zinc Sales Co., Columbus, Ohio, zinc oxides.
Azo Colors: Collway Colors Inc., Paterson, N. J., dry colors.
Azo Fuchsine: General Dyestuff Corp., N.Y.C., acid dye.
Azo Phloxine: General Dyestuff Corp., N.Y.C., acid dye.
Azo ZZZ 11, 44, 55, 66: American Zinc Sales Co., rub. acitivators.
Azocel: Synthetic Chemicals Inc., Paterson, N. J., solubiliser.
Azolith: Amer. Zinc Sales Co., Columbus, O., zinc pigment.
Azonine: General Dyestuff Corp., N.Y.C., direct dye on acet. rayon.
Azophor Red see Paranitraniline Red
Azosol: General Dyestuff Corp., N.Y.C., spirit soluble dye.
Azure Blue see Cobalt Blue and Smalt
Copper see Copper Carbonate Blue

B

3B: Sharples Chems. Inc., Phila., Pa., tert-dodecylmercaptan.
B 280: Anderson-Prichard Oil Co., Okla. City, Okla., fly spray base.
B-290: Anderson-Prichard Oil Co., Oklahoma City, fly spray base.
B-B: Du Pont Co., Photo Prods. Dept., preservative.
BK-5: U. S. Industrial Chems., Inc., N.Y.C., Butyl Cinnamoyl Pyruvat; light screen for suntan products.
B & S: Binney & Smith Co., N.Y.C., blacks.
B-Dri: L. W. Ferdinand & Co., Inc., Newton Lower Falls, Mass., waterproofing.
B. F. M. Solution: G. Frederick Smith Chem. Co., Columbus, O., analysis of butterfat.
BH Special: Marathon Corp. Chem. Div., Rothschild, Wisc., for tanning soles.
BHC: Kolker Chem. Wks., Inc., Newark, N. J., insecticide.
BHC: Niagara Chem. Div. Food & Chem. Corp., N.Y.C., benzene hexachloride.
B-K: Pennsylania Salt Mfg. Co., Philadelphia, Pa., bactericides.
B.R.C.: Barrett Div., Allied Chem. & Dye Corp., N.Y.C., rubber compounding material.
B.R.H.: Barrett Div., Allied Chem. & Dye Corp., N.Y.C., rubber compounding material.
BRS: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., rubber softener.
B.R.T.: Barrett Div., Allied Chem. & Dye Corp., N.Y.C., rubber compounding material.
B.R.V.: Barrett Div., Allied Chem. & Dye Corp., N.Y.C., rubber compounding material.
B & T: Du Pont Co., Finishes Div., Wilmington, Del., japan.
BTC: Onyx Oil & Chem Co., Jersey City, N. J., cationic germicide.
B.T.D.: Dow Chemical Co., Midland, Mich., disinfectant.
BVS: Baker Castor Oil Co., N.Y.C., vinyl stabilizer.
B.W.C.: Wyandotte Chems. Corp., Wyandotte, Mich., bottle washing compound.
"B & W": Babcock & Wilcox Co., N. Y. C., boilers refractories.
BWD: Multi Metal Wire Cloth Co., Inc., N.Y.C., filter leaf.
"B" Wax: Internat'l Wax Refg. Corp., B'klyn, N.Y., syn. beeswax.
BABBIT METAL 487, 622
BACITRACIN 125
Backstop: Falk Corp., Milwaukee, Wisc.
BACKWINDING COMPOUNDS, TEXTILE 487
Baco: Bachmeier & Co., Inc., N. Y. C., dyes.
Baco Miraclean: Bachmeier & Co., Inc., N. Y. C., wetting agent.
Baco Penet: Bachmeier & Co., Inc., N. Y. C., penetrator.
Bactene: Continental Asbestos & Refg. Corp., N.Y.C., germicide.
Baddeleyite see Zirconium Oxide
Badger Brand: Donald Sales & Mfg. Co., Milwaukee, Wis., foundry facing.
BAG CLOSING MACHINE 622
TIES, WIRE 622
BAGS, BURLAP 622
CANVAS 622
FILTER (Cotton or Wool) 622
FILTER (Glass) 624
LINED 624
MULTI-WALL, PAPER 624
PAPER 624
POLYETHYLENE-LINED 624
VALVE PAPER 624
WATERPROOF 624
WAXED 624
Bahia Arrowroot see Tapioca Flour
Tapioca see Arrowroot

Bainite: Industrial Chem. Prods. Co., Phila., Pa., laundry soaps.
Bait-Foil: An-Fo Manufacturing Co., Oakland, Calif., earwig bait.
Bake-Aid: Victor Chem. Wks., Chicago, Ill., rope preservative.
Baker's: Baker Castor Oil Co., N.Y.C., castor oil.
Baker's Sugar see Corn Sugar
Baking Enamels see Enamels Baking
Soda see Sodium Bicarbonate
Varnishes see Varnishes Baking
Bakurol see Paraffin
Balanced: Cambridge Wire Cloth Co., Cambridge, Md., wire belting.
BALANCES, ANALYTICAL 624
Balate see Gum Chicle
Ball Blue: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., laundry bluing.
Ball Clay see Clay Ball
BALL MILL LININGS 624
Ballard's: Quicksilver Producers Assoc., Inc., San Fran., Calif., mercury.
Balloon Cements see Cements Rubber
BALLS, FOR BALL MILLS 624
FLOAT 624
BALSAM CANADA 125
Capivi see Balsam Copaiba
COPAIBA 125
Fir see Balsam Canada
PERUVIAN 126
Balua Tapioca see Arrowroot
Banana Oil see Amyl Acetate
Bancroft Clay: United Clay Mines Corp., Trenton N.J., insectic. dust.
Banner: Commercial Paste Co., Columbus, O., wallpaper paste.
"Banner": Lunkenheimer Co., Cincinnati, O., lubricators.
Banner Brand: Southline Metal Prods. Co., Houston, Texas, steel drums & pails.
Banox: Calgon Inc., Pittsburgh, Pa., paint bond.
Banroc: Johns-Manville, N.Y.C., insulating matl
Bansect: Amer. Cyanamid Co., N. Y. C., insecticides.
Bantam demineralizer: Barnstead Still & Steriliser Co., Forest Hills, Boston, Mass.
Bantam Mikro: Pulverizing Machinery Co., Summit, N. J., pulverizer. metals.
Barak: Du Pont Co., Rubber Chems. Div., Wilmington, Del., accelerator.
Barbak: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., seed disinfectants.
Baralyme: Thomas A. Edison, Inc., Stuyvesant Falls, N. Y., absorbent.
BARBERRY BARK 126
BARBITURATES 126
Barden: J. M. Huber Corp., N.Y.C., clay.
Bardex: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., rubber softener.
Bardol: Barrett Div., Allied Chem. & Dye Corp., N.Y.C., rubber softener.
Baretex: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., solvent.
Barex: King Laboratories, Inc., Syracuse, N. Y., alloys, chems.
Barla Hydroxide see Barium Hydroxide
Barite see Barium Sulfate

BARIUM

BARIUM see Barium Metal
ACETATE 126
Binoxide see Barium Peroxide
BROMIDE 126
CARBONATE 126
CHLORATE 127
CHLORIDE 127
CHROMATE 127
CYANIDE 127
Dioxide see Barium Peroxide
FLUORIDE 127
FLUOSILICATE 128
Hydrate see Barium Hydroxide
HYDROXIDE 128
Hyposulfite see Barium Thiosulfate
IODIDE 128
METAL 128
Monosulfide see Barium Sulfide
Monoxide see Barium Oxide
NAPHTHENATE 128
NITRATE 128
OXALATE 128
OXIDE 128
OXIDE POROUS 128
PERCHLORATE 128
PERMANGANATE 128
PEROXIDE 128
Protoxide see Barium Oxide
Rhodanide see Barium Sulfocyanide
RICINOLEATE 128
STEARATE 128
SULFATE see also Blanc Fixe 129
SULFIDE 129
SULFITE 129
Sulfocyanate see Barium Sulfocyanide
SULFOCYANIDE 129
THIOSULFATE 129
TITANATE 129
ZIRCONIUM SILICATE 129
Barks see Crude Drugs
Barnesite: Lindsay Light & Chem. Co., West Chicago, Ill., optical glass polish
Bar-Nun: B. F. Gump Co., Chicago, Ill., auto-check weighers.
Baroco: Baroid Sales Div., Nat'l Lead Co., Los Angeles, Calif., clay.
Barofne: Chemical and Pigment Co., Oakland, Calif., barytes.
BAROMETERS 624
Baromix: Berry Asphalt Co., Magnolia, Ark., rubber asphalt.
Baros Camphor see Borneol
Barre: Jas. H. Rhodes & Co., Chgo., putty pwdr.
BARREL LIFTERS 624
LINERS 624
STANDS 626
TILTERS 626
BARREL-LINING COMPOUNDS 487
BARRELS 626
ALUMINUM 626
FIBRE 626
BARRELS (cont'd)
REMOVABLE COVER 626
RUBBER-LINED 626
STEEL 626
WOOD 626
Barretan: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., tanning extract.
Barsprout: Amer. Cyanamid Co., N. Y. C., sprout inhibitor.
Bartyl: Sindar Corp., N. Y. C., anti-skinning agt.
Baryta Yellow see Barium Chromate
BARYTES see also Barium Sulfate 129
Baryum see Barium, metal
Barweed: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., weed killers.
Basecomar: Berlow & Schlosser Co., Providence, R.I., petroleum resin.
Base 401-M: E. F. Drew & Co., Inc., N. Y. C., emulsifier.
Base 501-M: E. F. Drew & Co., Inc., N. Y. C., emulsifier.
BASE PLATES 626
BASES, ABSORPTION 487
SOLUBLE OIL 130
Basekote: Esso Standard Oil Co., N. Y. C., lubricant.
Basicol: Fritzsche Bros. Inc., N. Y. C., essential oil replacement.
"Basolit": Nukem Products Corp., Buffalo, N.Y., acid proof cement.
Basic Bismuth Chloride see Bismuth Oxychloride
Bismuth Nitrate see Bismuth Subnitrate
Carbonate see Lead White
Copper Acetate see Copper Subacetate
Cupric Chromate see Copper Chromate
Iron Acetate see Ferric Acetate
Molybdate see Ammonium Molybdate
BASKETS, (Alloy) 626
CENTRIFUGAL 626
RUBBER-COVERED 626
STONEWARE 626
Bastard Saffron see Saffron, American
Bat Manure see Guano
Batching Oils see Oils Batching
BATES, TANNING 487
BATHS, CONSTANT TEMPERATURE 626
OIL 626
WATER 626
Battery Manganese see Manganese Dioxide
Specialties see Paints Battery; Pitch Battery; Sealers Battery; Waxes Battery
Batu Gum see Gum Batu
BAUXITE 627
Bay State: Payson's Indelible Ink Co., Northampton, Mass., indelible ink.
Bayberry Tallow see Wax Bayberry
Bayol: Esso Standard Oil Co., N. Y. C., white mineral oils of low viscosity.
Baysols: Universal Chemical Co., Boston, Mass., emulsifiers.
Beaco Finisher: The Beacon Co., Boston, rubber finisher.
Beacon: Cincinnati Oil Works Co., Cincinnati, O., detergents.
Beacon: Esso Standard Oil Co., N. Y. C., bearing greases.
Beacon Colors: McKay Chem. Co., Inc., B'klyn, N.Y., glass colors.
Beacon All-Purpose: Hood Chem Co., Inc., Philadelphia, Pa., bluing.
Beacon Red: Ansbacher-Siegle Corp., Rosebank, S. I., N. Y., pigment scarlet.
Beaconol: Beacon Company, Boston, Mass., wetting agents.
Beamax: Davies Young Soap Co., Dayton, O., floor wax.
Bean Oil see Oil Soya Bean
Bear: Monsanto Chem. Co., St. Louis, lampblacks.
BEARINGS 627
BABBITT METAL 627
BALL 627
ROLLER 627
THRUST 627
Beau Brummel: Kem Labs., Bronx, N.Y., laundry starch.
Beaucalley Bucket: Beaumont Birch Co., Phila., Pa., elevator chain.
Beauxite see Bauxite
Becco: Buffalo Electro-Chem. Co., Buffalo, hydrogen peroxide.
Beckacite: Reichhold Chemicals, Inc., Detroit, phenolic resins.
Beckamine: Reichhold Chemicals, Inc., Detroit, urea-formaldehyde resins.
Beckerloy: Christian Becker, Clifton, N. J., weights.
Beckman: National Technical Labs., So. Pasadena, Calif., pH meters.
Beckolin: Reichhold Chemicals Inc., Detroit, Mich., syn. oils.
Beckosol: Reichhold Chemicals, Inc., Detroit, alkyd resin.
Beckton White see Lithopone
Beco-Turner: Filbrico Jointless Firebrick Co., Chicago, Ill., boiler baffles.
Bedminster: United Clay Mines Corp., Trenton, N.J., ball clay.
Beechem Spraying Unit: Beechem Lab., St. Johns, Mich., insecticide sprayer.
Beechwood see Creosote
Beeco: E. S. Browning Co., San Fran., Calif., detergents.
Beehive: Will & Baumer Candle Co., Inc., Syracuse, N.Y., white beeswax.
Bee-Kut: Bee Chem. Co., Chicago, Ill., cutting oil.
Beer-O-Lite: Empire Soap & Chem. Co., M'uplis, beer-pipe cleaner.
Bee Suds: Bee Chem. Co., Chicago, Ill., detergent.
Beeswax see Wax Bees
Beetle: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., resins.
Belacet: Bell Chem. Co., N. Y. C., cellulose acetate.
Bell Mine: Warner Co., N.Y.C., quick lime.
BELLOWS, STAINLESS STEEL 627
Belro: Hercules Powder Co., Wilmington, Del., resin.
BELTING (Conveyor and Elevator) 627
POWER TRANSMISSION 627
Belting Specialties see Cements Belt; Cleaners Belt; Dressings Belt; Pastes Belt-Makers; Preservatives Belt
BELTS
RUBBER 627
SAFETY 627
V 627
Bemul: Beacon Co., Boston, Mass., edible glyceryl monostearate.
Ben Franklin: U. S. Gypsum Co., Chicago, Ill., gypsum.
Benbar: Benite Co., Jackson, Mich., varnish.
Bendamide: Bendix Chem. Corp., N. Y. C., sulfonamide plasticisers.
BENDERS, TUBE 627

Bengal see Agar
Benguela Gum see Gum Benguela
Beni Oil see Oil Sesame
Benjamin Gum see Gum Benzoin
Ben-Mix: Benite Co., Jackson, Mich., paint reinforcer.
Benne Oil see Oil Sesame
Benoclor: Clorobem Corp., Jersey City, N.J., aquatic herbicide.
Ben-Oil: Benite Co., Jackson, Mich., finisher.
Benoleum: Benite Co., Jackson, Mich., linoleum sealer & coater.
Benoplex: Fallek Products Co., Inc., N.Y.C., vitamin preparation.
Benovit: Fallek Products Co., Inc., N.Y.C., vitamin preparation.
Benowax: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., petroleum waxes.
Benox: B. L. Lemke & Co., Inc., Lodi, N. J., for Dutch Elm disease.
Bensapol: Jacques Wolf & Co., N. Y. C., scouring agent.
Bentex: Benite Co., Jackson, Mich., canvas coating.
BENTONITE 130
Ben-Var-Soft: Benite Co., Jackson, Mich., varnish remover.
Benzahex: Chipman Chem. Co. Inc., Bound Brook, N. J., dust sprays.
Benzalacetone see Benzylideneacetone
BENZAL CHLORIDE 130
BENZALDEHYDE 130
BENZAMIDE 131
Benzaline yellow: Whittaker, Clark & Daniels Inc., N. Y. C., color.
Benzazine see Quinoline
Benzazol see Indole
BENZENE see Benzol
Carbonal see Benzaldehyde
Carbonitrile see Benzonitrile
Chloride see Monochlorobenzene
Dibromide Para see Paradibrombenzene
Dichloride see Dichlorobenzene
HEXACHLORIDE 131
Hexahydride see Cyclohexane
HEXAHYDROXY 131
Methylal see Benzaldehyde
SULFONAMIDE 131
SULFONYL CHLORIDE 131
Sulfonic Chloride see Benzenesulfonylchloride
Tetrahydride see Cyclohexene
Benzenecarboxylic Acid see Acid Benzoic
1,2-Benzene Dicarbonyl Chloride see Phthalyl Chloride
Benzenediol see Pyrocatechol also Resorcinol
Benzenetriol see Phloroglucinol
Benzenone see Quinone
BENZHYDROL 132
Benzidam see Aniline
BENZIDINE 132
Base see Benzidine
HYDROCHLORIDE 132
SULFATE 132
BENZINE 132
Soaps see Soaps Benzine
Benzinoform see Carbon Tetrachloride
Benzinum see Petroleum Ether
Benzinum Purification see Benzine
Benzo: General Dyestuff Corp., N.Y.C., direct dye.
Benzocaine see Ethyl-p-Aminobenzoate
Benzocarbonyl Chloride see Benzoyl Chloride
Benzoform: General Dyestuff Corp., N.Y.C., direct dye.
Benzofurane resin see Paracoumarone
BENZOIC Acid see Acid Benzoic
Aldehyde see Benzaldehyde
ANHYDRIDE 132
Ether see Ethyl Benzoate
BENZOIN 132
Benzoin Gum see Gum Benzoin
Resin see Gum Benzoin
BENZOINOXIME, Alpha 132
BENZOL 132
Benzoline see Benzine
BENZONAPHTHOL 133
BENZONITRILE 134
Benzorium see Gum Benzoin
BENZOPHENONE 134
Benzophenone Oxide see Xanthone
Benzopyrone see Coumarin
Benzopyrrol see Indol
BENZOQUINOLINE 134
Benzoquinone see Quinone
Benzosulfimide see Saccharin
BENZOTRIAZOLE 134
BENZOTRICHLORIDE 134
BENZOTRIFLUORIDE 134
BENZOYL Benzene see Benzophenone
CHLORIDE 134
Hydride see acetophenone also Benzaldehyde
PEROXIDE 134
Superoxide see Benzoyl Peroxide

BENZYL

BENZYL ACETATE 134
Alcohol see Alcohol Benzyl
Benzene see Diphenylmethane
BENZOATE 135
BUTYRATE 135
Carbinol see Phenyl Ethyl Alcohol
CHLORIDE 135
CINNAMATE 135
CYANIDE 135
Ether see Ether Dibenzyl
FORMATE 135
PARA HYDROXY BENZOATE 135
Phenylamine see Benzylaniline
PHTHALIMIDE 135
PROPIONATE 135
SALICYLATE 136
SUCCINATE 136
SULFIDE 136
THIOCYANATE 136
Benzyl Fast: Ciba Co., N.Y.C., paint colors.
Benzylidene Chloride see Benzal Chloride
Benzylnitrile see Benzyl Cyanide
Benzylthioether see Benzyl Sulfide
BENZYLTRIMETHYLAMMONIUM CHLORIDE 136
Berako: Chipman Chemical Co., Inc., Bound Brook, N.J., insecticide.
Beres: Crosby Chems. Inc., De Ridder, La., dark resin.
Berl Saddles: Maurice A. Knight, Akron, O.
Bernabase: Bernard Color & Chem. Corp., N. Y. C., dye bases.
Bernabon: Bernard Color & Chem. Corp., N. Y. C., cellulose-acetate and nylon dyes.
Bernacet: Bernard Color & Chem. Corp., N.Y.C., acetate dyes.
Bernacetine: Bernard Color & Chem. Corp., N. Y. C., printing dyes.
Bernachrome: Bernard Color & Chem. Corp., N. Y. C., acid dyes.
Bernacid: Bernard Color & Chem. Corp., N. Y. C., acid dyes.
Bernacyl: Bernard Color & Chem. Corp., N. Y. C., cellulose-acetate and nylon dyes.
Bernafast: Bernard Color & Chem. Corp., N. Y. C., for fixation of dyes.
Bernafix: Bernard Color & Chem. Corp., N. Y. C., mordant.
Bernafoamex: Bernard Color & Chemical Corp., N.Y.C., assistants and defoamers.
Bernaform: Bernard Color & Chem. Corp., N. Y. C., direct dyes.
Bernafur: Bernard Color & Chem. Corp., N. Y. C., org. dyeing bases.
Bernagel: Bernard Color & Chemical Corp., N.Y.C., textile aids.
Bernagen: Bernard Color & Chem. Corp., N. Y. C., insol. azo dyes.
Bernagum: Bernard Color & Chemical Corp., N.Y.C., textile and fur printing gums.
Bernalan: Bernard Color & Chem. Corp., N. Y. C., metalized acid dyes.
Bernalizarine: Bernard Color & Chem. Corp., N. Y. C., wool and silk dyes.
Bernaloid: Bernard Color & Chem. Corp., N. Y. C., vat dyes.
Bernamerse: Bernard Color & Chemical Corp., N.Y.C., textile assistants.
Bernamine: Bernard Color & Chem. Corp., N. Y. C., direct dyes.
Bernamul: Bernard Color & Chem. Corp., N. Y. C., emulsifying agts.
Bernanthrene: Bernard Color & Chem. Corp., N. Y. C., vat dyes.
Bernapen: Bernard Color & Chemical Corp., N.Y.C., penetrating agents.
Bernapiast: Bernard Color & Chem. Corp., N. Y. C., plastic dyes.
Bernaply: Bernard Color & Chemical Corp., N.Y.C., textile dyes.
Bernaphthol: Bernard Color & Chem. Corp., N. Y. C., coupling preparers.
Bernasalt: Bernard Color & Chem. Corp., N. Y. C., dye salts.
Bernasist: Bernard Color & Chem. Corp., N. Y. C., dye assistants.
Bernasoft: Bernard Color & Chemical Corp., N.Y.C., textile assistants.
Bernasolve: Bernard Color & Chem. Corp., N. Y. C., syn. solvents.
Bernastrip: Bernard Color & Chemical Corp., N.Y.C., textile stripping agents.
Bernasul: Bernard Color & Chem. Corp., N. Y. C., sulfur dyes.
Bernatan: Bernard Color & Chem. Corp., N. Y. C., tanning aids.
Bernatard: Bernard Color & Chem. Corp., N. Y. C., retarding agts.
Bernaterge: Bernard Color & Chem. Corp., N. Y. C., syn. soaps.
Bernazo: Bernard Color & Chem. Co., N.Y.C., cotton & rayon dyes.
Bernazine: Bernard Color & Chem. Co., N.Y.C., dyes, paper
Bernazyme: Bernard Color & Chem. Corp., N. Y. C., enzymatic desizing powder.
Bernoil: Bernard Color & Chem. Corp., N. Y. C., oil dyes.
Bernprintacid: Bernard Color & Chemical Corp., N.Y.C., acid dyes.
Bernprintacyl: Bernard Color & Chemical Corp., N.Y.C., dyes.
Bernprintamine: Bernard Color & Chemical Corp., N.Y.C., direct dyes.
Bernprintazine: Bernard Color & Chemical Corp., N.Y.C., basic dyes.
Berries see Crude Drugs
Berryllia see Beryllium Oxide
BERYL 136
BERYLLIUM (Metal) 136
Aluminum Silicate see Beryl
CHLORIDE 136
FLUORIDE 136
HYDROXIDE 136
NITRATE 136
OXIDE 136
SULFATE (Glucinum Sulfate) 136
Beryl-Trode: Ampco Metal Inc., Milwaukee, Wis., arc welding electrodes.
Besco: Butalo Extract & Sup. Co., Buffalo, N. Y., leather fillers.
Best: Gillam Soap Works, Ft. Worth, Texas, floor sweep.
Best Cleanser: W. D. Carpenter Co., Inc., Syracuse, N.Y., **dairy cleansers.**
Bestov: Cherry-Burrell Corp., Chicago, Ill., can rinsers.
Beta compounds listed under first word following beta, e.g., Beta Naphthol is listed as b-Naphthol and is indexed under N.
Beta-Chlornaphthalene see Chlornaphthalene
Beta-Dinitronaphthalene see Dinitronaphthalene
Beta-Diphenylthiourea see Thiocarbanilide
Beta-Ethynyl Ethanol see 3-Butyn-1-ol
Betafat: Southern Cotton Oil Co., N. Y. C., acids, fatty.
Beta-Hydroxybutyraldehyde see Aldol
BETAINE HYDROCHLORIDE 136
Beta-Monohydroxynaphthalene see Beta-Naphthol
Beta-Naphthylamine see Naphthylamine
Beta-Naphthyl Ether Ether see Nerolin
Beta Naphthyl Methyl Ether see Yara Yara
Betanola: Beacon Co., Boston, Mass., dispersions agt.
Beta (Para Hydroxy Phenyl Alanine) see Tyrosene
Betapitch: Southern Cotton Oil Co., N. Y., N. Y. C., pitch cottonseed.
Beta-pyridyl-alpha-normal methyl-pyrrolidine see Nicotine
Betasol: Amer. Cyanamid Co., N. Y. C., wetting agents.
Betasol: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C. wetting agents.
Beth-tec: Bethlehem Fdry. & Mach. Co., Bethlehem, Pa., heating systems.
Beta: Sterwin Chems. Inc., N. Y. C., food enrichment tablet.
Better-Built: Biggs Boiler Wks. Co., Akron, O., tanks, pipe.
Bev-Rich: Richardson Co., Melrose Park, Ill., beverage cases.
Biacetyl see Diacetyl
Biancol: Sherwood Refg. Co. Inc., Englewood, N. J., white mineral oils.
Bianiline see Benzidine also Hydrazobenzene
Bianisidine see Dianisidine
Bibasic Calcium Phosphate see Calcium Phosphate Dibasic
Bicalcic Phosphate see Calcium Phosphate Dibasic
Bicarbonate of Soda see Sodium Bicarbonate
Bicarburetted Hydrogen see Ethylene
Bichromates see individual headings as Sodium Bichromate; Potassium Bichromate, etc.
Bicyclodecane see Decahydronaphthalene
Bieberite see Cobalt Sulfate
Biff: Industrial Chem. Prods. Co., Phila., Pa., insecticides.
Bigaradine: Fritzsche Bros. Inc., N. Y. C., syn. orange flower base.

Big Bertha: Holmerden Co., Stratford, Conn., drain pipe solvent.
Big Horn: L. A. Salomon & Bro., N. Y. C., bentonite.
Billifulvin see Bilirubin
Billiphasin see Bilirubin
BILLRUBIN 136
Bill-Poster Paste see Pastes Bill-Poster
Bim: Koppers Co., Ptsbgh., farm insecticide
Binda: Sika Chemical Corp., Passaic, N.J., tile setting cpd.
Binder Twine Oil see Oils Binder Twine
BINDERS' BRIQUETTE 487
CORE 487
TANNING 487
TEXTILE 487
BINE 627
Bindtite: C. B. Hewitt & Bros. Inc., N. Y. C., for woodworking.
Bindtite: Keystone Chem. Co., Cleveland, O., liquid rubber.
Biobate: Wallerstein Co. Inc., N. Y. C, leather baiting compd.
Biological Stains see Stains Biological
Bionesin: Biorganic Lab., Inc., Brooklyn, N. Y., antispasmodic.
Bionol: General Dyestuff Corp., N. Y. C., disinfectant.
Biopal: General Dyestuff Corp., N. Y. C., germicidal detergent.
Biphenyl phenyl benzene see Diphenyl
2,2' Bipyridine see Dipyridyl
2,2' Bipyridyl see Dipyridyl
Bird Manure see Guano
Bismarck: General Dyestuff Corp., N.Y.C., basic dye.

BISMUTH

BISMUTH (Metal) 136
ALBUMINATE 136
CARBONATE 136
CHLORIDE 136
FLUORIDE 137
Hydrate see Bismuth Hydroxide
HYDROXIDE 137
IODIDE 137
IODOSUBGALLATE 137
NITRATE 137
Oxide see Bismuth Trioxide
OXYCHLORIDE 137
POWDER 137
SALICYLATE 137
SUBACETATE 137
SUBCARBONATE 137
Subchloride see Bismuth Oxychloride
SUBGALLATE 137
SUBIODIDE 137
SUBNITRATE 137
SUBSALICYLATE 138
SULFATE 138
Ternitrate see Bismuth Nitrate
TRI BROMOPHENATE 138
Trichloride see Bismuth Chloride
Trifluoride see Bismuth Fluoride
Trinitrate see Bismuth Nitrate
TRIOXIDE 138
White see Bismuth Subnitrate
Yellow see Bismuth Trioxide
Bismuthous Chloride see Bismuth Chloride
Bismuthyl Carbonate see Bismuth Sub-Carbonate
Chloride see Bismuth Oxychloride
Nitrate see Bismuth Subnitrate
Bis-Phenol-A see Para-Isopropylidine Bisphenol.
Bitstone see Silica
Bitter Almond Oil Camphor see Gum Benzoin
Salts see Magnesium Sulfate
Spar see Dolomite
Bitumen see Asphaltum
Bituminite: Hercules Powder Co., Wilmington, Del., dynamite.
Bituminous Specialties see Paints Enamels etc.
Bituvia: Reilly Tar & Chem Corp., Indianapolis, Ind., road tar.
Bivinyl see Butadiene
Bixine see Annatto
Black Balsam see **Balsam, Peruvian**
Blackburn: Foote Mineral Co., Phila., ceramic colors.
Black Catechu see Cutch
Black Diamond: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., pitch.
Black Jack: Du Pont Co., Finishes Div., Wilmington, Del., enamel.
Black Label: Du Pont Co., Finishes Div., Wilmington, Del., finishes.
Lead see Graphite
Oxide of Manganese see Manganese Dioxide
Precipitate see Mercurous Chloride
Rouge see Iron Oxide
Black Flash: Foote Mineral Co., Phila., manganese comp.
Blackhawk: Standard Silica Corp., Chicago, Ill., silica sand.
Black IVO: Binney & Smith Co., N Y C., bone black.
Black Knight: C. E. Williams & Co., Everyville, Calif., lamp black.
Black Monogram: Westinghouse Elec. & Mfg. Co., Bloomfield, N. J. metal stamping comp., marking ink
Black-out: R. T. Vanderbilt Co., N.Y.C., coating rubber.
Black Oxide of Manganese see Manganese Dioxide.
Black Precipitate see Mercurous Chloride.
Black Soy Gum see Gum Accroides
Blacks see Bone Black; Carbon Black etc.
Blakstix: Atlas Powder Co., Wilmington, Del., blasting powder.
Blanc De Perle see Bismuth Oxychloride
Blanc D'Espagne see Bismuth Oxychloride
BLANC FIXE see also **Barium Sulfate** 138
Blanchit: Van Allen Co., Chicago, Ill., wood bleach.
Blancophor: General Dyestuff Corp., N. Y. C., whitening agent.
Blandol: L. Sonneborn Sons, N.Y.C., mineral oil
Blankit: General Dyestuff Corp., N. Y. C., reducing & bleaching agent.
BLAST CLEANING EQUIPMENT 627
BLASTING SUPPLIES 487
Blatchford: National Lead Co., N. Y. C., type metal.
Blaugas: Pittsburgh Thermoline Co., Pittsburgh, Pa., propane gas.
Blaze-prof: Wilbur & Williams Co., Boston, Mass., flame resistant paint.
Bleach see Bleaching Powder, also Bleaches Laundry
Bleached Shellac see Shellac Bleached
Bleachers' Bluing see Bluing Bleachers
Bleachette: Amer. Cyanamid Co., N. Y. C., laundry blue.
Bleaching Soap-N: Nopco Chemical Co., Harrison, N. J., detergent.

BLEACHES

BLEACHES see also **Assistants Bleaching; Oils Bleaching; Bluing** etc. Spec. Sect., and **Chlorine, Bleaching Powder, Hydrogen Peroxide,** etc. in Chem Sect.
FOOD 487
GASOLINE 487
LAUNDRY 487
OILS 488
PAPER & PULP 488
TEXTILES 488
WOOD 488
BLEACHING POWDER 138
Bleederseal: Du Pont Co., Finishes Div., Wilmington, Del., sealer for bleeding colors.
Blendall: Enthone, Inc., New Haven, Conn., lacquer additive.
Blended Naphthas see **Naphthas Blended**
BLENDERS 627
Blend-Way: E. L. Bruce Co., Memphis, Tenn., floor finish.
Bleu D'Azure see Smalt
Bleu De Saxe see Smalt
Blizzard: George Senn, Inc., Phila., Pa., anti-freeze.
Block-in Lacquer: Lewis Chem., Co., Boston, Mass., block-out stencil.
BLOCKS, PILLOW, BALL & ROLLER 627
BLOOD DRIED 138
Red see Iron Oxide Red
Blo: Planetary Chem. Co., Creve Coeur, Mo., tetraethyl pyrophosphate formulation.
BLOWERS, CENTRIFUGAL 627
LABORATORY 627
PORTABLE 627
TURBINE 627
Blown Fish Oil see **Oil Fish Blown**
Blud-Ex: Huntington Labs., Inc., Huntington, Ind., stain removers.
Blue Beauty: Los Angeles Chem. Co., Los Angeles, Calif., knapsack dusters.
Blue Bonnet: Gillam Soap Works, Ft. Worth, Texas, soap.
Blue Copperas see Copper Sulfate
Blue Diamond: W. R. E. Andrews Sales Inc., Phila., Pa., copper sulphate.
Blue Diamond: Du Pont Co., Finishes Div., Wilmington, Del., remover for wood.
Blue & Flesh: Pittsburgh Plate Glass Co., Pittsburgh, Pa., plate glass.
Blue Ointment see **Mercurial Ointment**
Pigments see Pigments Blue
Blue Ribbon: Industrial Chem. Prods. Co., Phila., Pa., disinfectant.
Blue Ridge: R. T. Vanderbilt Co., N. Y. C., kaolin.
Blue Streak: Prater Pulveriser Co., Chicago, Ill., grinder.
Salt see Nickel Salts Single
Stone see Copper Sulfate
Blue Tone: L. Martin Co., Inc., N. Y. C., lamp black.
Vitriol see Copper Sulfate
Blue Whitener: Patent Chems., Inc., Paterson, N. J., bleach.
Blufixe: H. Kohnstamm & Co., Inc., N. Y. C., laundry sour.
BLUING, BLEACHERS' 488
LAUNDRY 488
Blusoap: Chas. W. Young & Co., Phila., Pa., blue flakes.
Bob-N: Sherwin-Williams Co. Cleveland, paints, coatings, stains, fillers, kalsomine, water paints, white lead, colors, and pigments.
Body Color: Patent Chems., Inc., Paterson, N. J., oil color.
Body-Guard: General Biochemicals, Inc., Chagrin Falls, O., dairy cultures.
Boerite: Nopco Chem. Co., Harrison, N. J., emulsifier, plasticiser.
Bofors: Bergstrom Trading Co. Inc., N.Y.C., blasting fuses
Bohnite: Case Hardener Service Co., Cleveland, carburizing comp.
Boiled Oil see **Oil Linseed**
BOILER COMPOUNDS 488
FEED WATER SYSTEMS 627
FEED WATER TREATMENT 488
TREATMENT 488
Water Control Equipment see Equipment, Boiler Water Control
Bollerene: Dacar Chemical Products Co, Pitts., Pa., water treatment.
Boiler-Rite: Damon Chemical Co., Inc., Alliance, Ohio, boiler compounds.
BOILERS, FIRE TUBE 627
HIGH PRESSURE 627
WASTE HEAT 627
WATER TUBE 627
BOIL-OFF COMPOUNDS, RAYON 488
SILK 489
TEXTILE 489
Bole see Iron Oxide Red
Bolafin: Boler Petroleum Co., Phila., Pa., paraffin replacement.
Bolus Alba see Clay, China and Kaolin
BOMBS OXYGEN 628
Bonanza: Anabacher-Siegle Co., Rosebank, N.Y., dry colors.
Bond Crowns: Continental Can Co. Inc., N. Y. C., crown caps.
Bonderite Z: Parker Rust Proof Co., Detroit, paint coating.
Bondex: Reardon Co., St. Louis, cement paint.
Bondogen: R. T. Vanderbilt Co., N.Y.C., rub. plasticizer.
Bond-Rite: Standard Paste & Glue Co., Inc., Chicago, Ill., rubber tile cement.
Bondrite: Union Bay State Chem. Co., Cambridge, Mass., rubber cement.
BONE ASH see also **Calcium Phosphate Tribasic** 139
BLACK 139
BOTANICALS 139
GROUND AND MEAL 139
Bonitex: Scher Bros., Clifton, N. J., acetate black developer.
BOOSTERS, PRESSURE 628
Boot Creme: Cavalier Co., Baltimore, Md., leather resurfacers.
Boot Specialties see **Enamels Boot and Shoe; Cleaners Leather; Dressings Leather; Pastes Waterproofing; Shoe Dressings (industrial); Softeners Leather; Stains Leather; Stiffeners Leather; Washing Compounds Leather.**
Booth Mask: Crescent Chemical Corp., Perth Amboy, N.J., wall masking material.
Boothente: Chemco Prod. Co. Inc., Chicago, Ill., coating.
Boral Acous: R. P. Rowson Co., N.Y.C., emulsifier.

Borax see Sodium Borate
Boraxo: Pacific Coast Borax Co., N.Y.C., mechanics hand cleaner.
BORDEAUX MIXTURE 489
Borerkill: Lethelin Products Co., Inc., Mt. Vernon, N. Y., for tree borers.
Bordow: Dow Chemical Co., Midland, Mich., fungicide.
Boric Acid see Acid Boric
"Borite": Milwaukee Chemical Co., Milwaukee, Wis., soap.
Borneo Camphor see Borneol
BORNEOL 139
Boroform see Acetylene Tetrachloride
BORON AMORPHOUS 139
CARBIDE 139
Fluoride-di-ethyl Ether Complex see Boron Fluoride Etherate
FLUORIDE ETHERATE 139
NITRIDE 139
TRICHLORIDE 139
TRIFLUORIDE 139
Borosoap: Pacific Coast Borax Co., N.Y.C., borax soap.
Botanicals see Crude Drugs
BOTTLE-CAPPING MACHINES 628
Bottle clear: Armstrong Chem. Co., Inc., Canandaigua, N. Y., mech. bottlewashing.
BOTTLE FILLING MACHINES 628
BOTTLE SHAKING MACHINES 628
BOTTLERS, ALKALI 489
Bottlers' Specialties see Alkali Bottlers'; Chill-Proof Compounds Beer; Cleaners Bottle; Colors Food; Flavors Bottlers'; Preservatives Food; Glue Bottle-Labelling; Sealers Bottle; Waxes Bottle
BOTTLES, GLASS 628
HARD RUBBER 628
STONEWARE 628
WOULFF 638
Bourbovan: Felton Chem. Co., Inc., Bklyn., N. Y., vanilla concs.
Bowax: Boler Petroleum Co., Phila., Pa., microcrystalline wax.
Bower: G. H. Voter Co., Boston, Mass., anhydrous ammonia.
Boxseal: Paisley Products, Inc., Chicago, Ill., case sealing glue.
Bozotol: Hart Prods. Co., N.Y., textile penetrants.
Bradleys Sea Fowl: Amer. Agric. Chem. Co., N.Y.C., mixed fert.
BRAKE COMPOUNDS, HYDRAULIC 489
BRAKE LINING SATURANTS 489
BRAKES MAGNETIC 628
Brambicide: Thompson Horticultural Chems. Corp., Los Angeles, Calif., brush killer.
BRASS, INGOTS SHAPES 628
Brassifye: Bee Chem. Co., Chicago, Ill., corrosion inhibitor.
BRASS POWDERS 139
Brauneo: Braun Corp., Los Angeles, boiler compn., degts., chems., etc.
Brazil Wax see **Wax Carnauba**
Brazilwood see Fustic, Hypernic
BRAZILWOOD EXTRACT 139
BRAZING COMPOUNDS 489
Brazing Solders see Solders Brazing
Brazo: Linde Air Prods. Co., N.Y.C., calcium carbide.
BREAKERS, CIRCUIT 628
BREAKERS, COAL 628
BREATHERS, STORAGE TANK 628
Breath-O-pine: W. D. Carpenter Co. Inc., Syracuse, N. Y., pine disinfectant.
Bremen Blue see Copper Carbonate Blue
Green see Copper Carbonate
Breval: Zapon Div. Atlas Powder Co., Stamford, Conn., aluminum finish.
Brevex: Industrial Finishes Dept, Atlas Powder Co., Stamford, Conn., finishes & lacquers.
Brevokrak: Zapon Div. Atlas Powder Co., Stamford, Conn., finishers & lacquers.
Brevoline: Zapon Div. Atlas Powder Co., Stamford, Conn., lacquer thinners.
Brevolite: Industrial Finishes Dept., Atlas Powder Co., Stamford, Conn., lacquers.
Brevolux: Industrial Finishes Dept., Atlas Powder Co., Stamford, Conn., finishes & lacquers.
Brevon: Industrial Finishes Dept., Atlas Powder Co., Stamford, Conn., plastic coatings.
Brewers' Specialties see Alkali Bottlers'; Bottle Capping Compounds; Cleaners Bottle; Enamels Brewers'; Enzymes; Hypochlorites Industrial; Pastes Label; Pitch Brewers'; Preservatives Food; Sealers Bottle.
Bric-Bond: The Cellcote Co., Cleveland, Ohio, acid proof cement.
BRICK, ACID RESISTING 628
CARBON 628
INSULATING 628
PORCELAIN 628
REFRACTORY 628
SILICA 628
SILICON CARBIDE 628
VITREFIED 628
BRIDGES, CONDUCTIVITY 628
Bright Nu: Hughes Chem. Supply Co., Baltimore, Md., cleaning compounds.
Bright Red Oxide see Iron Oxide Red
Brilco: Brilliant Chem. Co., Bklyn., coal-tar disinf.
Brill: Foy Electro-Chemical Co., Ansonia, Conn., burnishing compound.
Brilliant Black Selecta: Utah Gilsonite Co., St. Louis, Mo., gilsonite.
Brilliant Crown: Solshine Mfg. Co., Fall River, Mass., furniture polish.
Brilliantone: G. S. Robins & Co., St. Louis, Mo., laundry sour.
Bri-Mar: Briggs Maroney Co., Inc., Everett, Mass., paints.
Brimate: Electro-Chemical Supply & Eng. Co., Emmaus, Pa., cements.
Brimstone see Sulfur
Brinchromate: Superior Chemical Works, Louisville, Ky., anti corrosion.
Brine Anti-Corrosion Agents see Anti-Corrosion Agents Brine
Brine-O-Lator: Carey Salt Co., Hutchinson, Kansas, salt disolver.
Brine-prof: Wilbur & Williams Co., Boston, Mass., brine resistant paint.
Brino: Seydel Chemical Co., Jersey City, N.J., preservative.
Briquette Binders see Binders Briquette
Pitch see Pitch Briquette
BRIQUETTING AND TABLET MAKING MACHINERY 628
Brisco: Hercules Pwdr. Co., Wilmington, for debarring hogs.
Brisk: S. C. Johnson & Son Inc., Racine, Wis., laundry finish.
Brisk: U. S. Sanitary Specialties Corp., Chicago, Ill., cleaner.
Bristol: H. Kohnstamm & Co., Inc., N. Y. C., laundry starch.
Brite Dip: Haviland Prods. Co., Grand Rapids, Mich., cast brightener.
Brite-Dip: A. J. Stull & Co., Philadelphia, Pa., metal cleaner.
Brite Edge: Cataract Chemical Co., Inc., Buffalo, N. Y., burnishing ink.
Britelume: Maas & Waldstein Co., Newark, N.J., aluminum finishes.
Briten-All: Vestal Incorporated, St. Louis, Mo., floor cleaner.
Brite-ner: Stull & Co., Phila., Pa., dip for metal.
Brite-N-Nu: Nu Steel Co., Chicago, Ill., silver polish.
Brite-O: Western Michigan Chemical Co., Muskegon, Mich., ammonia.
British Gum see Dextrin
Brite: Adelphi Paint & Color Wks., Ozone Pk., N. Y., paints, varnishes, enamels.
Britone Red: Sherwin-Williams Co., Cleveland, toner.
BROACHING COMPOUNDS 489
Brolite: Andrew Brown Co., Los Angeles, Calif., lacquers & enamels.
Brom Cresol Blue see Bromocresol Green
3-Brom-4-Hydroxy Biphenyl see **2 Brom Paraxenol**
Bromallylene see Allyl Bromide
Bromic Ether see Ethyl Bromide
Bromides see individual headings, as Sodium Bromide, Potassium Bromide, etc.
BROMINE 139
p-BROMOANILINE 140
BROMOBENZENE 140
Bromobenzol see Bromobenzene
Bromobutane see n-Butyl Bromide
2-Bromobutane see Butyl Bromide, Secondary
BROMOCHLOR PHENOL BLUE 140
BROMOCRESOL GREEN 140
BROMOCRESOL PURPLE 140
1-Bromo-3-Chloropropane see Trimethylene Chlorobromide.
Bromocyclohexane see Cyclohexyl Bromide
BROMODICHLORO METHANE 140
Bromoethane see Ethyl Bromide
BROMOFORM see also Tribromomethane 140
a-BROMOISOVALERYLUREA 140
Bromofume: Eaton Chemicals, Inc., Los Angeles, Calif., soil fumigant.
Bromomethane see Methyl Bromide also Ethyl Bromide
1-Bromo-2-Methyl Propane see Isobutyl Bromide
1-Bromopentane see Amyl Bromide, Normal
2-Bromopentane see Amyl Bromide, Secondary
n-Bromopentane see n-Amyl Bromide
BROMOPHENOL BLUE 140
2 BROMO 4 PHENYL PHENOL 140
2-BROMOPYRIDINE 140
n-BROMOSUCCINIMIDE 140
2-BROMOTHIOPHENE 141
Brom Thymol see Dibromothymol Sulfonphthalein
BROMOTHYMOL BLUE 141
BROMOTRICHLOROMETHANE 141
Bromum see Bromine
Bromyrite see Silver Bromide
Bronco: Frontier Chem. Co., Midland, Texas, alkali.
Bronze Coating—NP: Industrial Finishes Dept., Atlas Powder Co., Stamford, Conn., finishes & lacquers.
Bronzend: Arcos Corp., Phila., Pa., welding electrodes.
Bronzochrom: Eutectic Welding Alloys Corp., N. Y. C.
BRONZE POWDERS 141
BRONZING LIQUIDS 489
Varnish see **Varnishes Bronzing**
Brooklyn: Battelle & Renwick, Inc., N. Y. C., sulphur.
Brown Acetate see **Calcium Acetate**
Brown Iron see Iron Oxide Brown
Spar see Dolomite
Brownie: Wright-Austin Co., Detroit, Mich., boiler signal.
BRUCINE ALKALOID 141
SULFATE 141
Brucite see Magnesium Hydroxide
Bruko: Bruce Prods. Corp., Howell, Mich., buffing compound.
Brunswick Green see Copper Carbonate
BRUSHES, ELECTRIC GENERATOR 628
BRUSHES, ELECTRIC MOTOR 628
Brushing Lacquer see **Lacquers Brushing**
Brushite: Chem. Spec. Co., Los Angeles, Calif., brush cleaner.
Brutir: Esso Standard Oil Co., N. Y. C., grease.
Bruyere: Antoine Chiris Co., N.Y.C., perfume fixative.
Bryant-Silica Gel: Bryant Heater Co., Cleveland, dehumidifier.
Brymul: Penola, Inc., Ptsbgh., lubricants.
Brytene: Gen'l Oil Prods. Corp., Chgo., dry-cleaning filter aid.
Brytex: Monsanto Chem. Co., St. Louis, soap builder.
Bubble Rub Concentrate: Keystone Chem. Co., Cleveland, O., dry foam cleaner.
Buchu Leaves see Crude Drugs
Bu-Co: C. S. Buchanan Chem. Co., Cinn., O., metal cleaners.
BUCKETS, ACID RESISTING 628
ELEVATOR AND CONVEYOR 628
SKIP HOIST 628
Buckeye cleanser: Davies-Young Soap Co., Dayton, O., oil soaps.
Buffalo: Corn Prods. Refg. Co., N. Y. C., corn starch.
Buffalo: Link Belt Co., Chicago, elevator buckets.
Buffalo: Robinson Bros. Chemicals, Inc., B'klyn, N.Y., ammonia.
BUFFING COMPOUNDS 489
Buffont: Tannerize Co., Chicago, Ill., electric buffer method.
Bufknat: Buflovak Equipt. Div., Blaw-Knox Co., Buffalo, N.Y.
Bufloweld: Buflovak Equipt. Div., Buffalo, N. Y., processing equipt.
Bufmil: Republic Metals Co., Bklyn., N. Y., babbitt.
Bug-Blaster: W. W. Lawrence & Co., Pittsburgh, Pa., insecticide.
Bug-Foil: An-Fo Manufacturing Co., Oakland, Calif., insecticide.
Bugmaster: Michigan Chemical Corp., St. Louis, Mich., insecticides.
Bulator: Hendrick Mfg. Co., Carbondale, Pa., grilles.
Bull Frog: Berman Chemical Co., Toledo, Ohio, metal cleaner.
Bull Grip: Houk & Co., Cleveland, O., rubber cements.
Bulldog: Palmer Asphalt Co., Bayonne, N.J.
Bulls-Eye: Wm. Zinsser & Co., N.Y.C., shellacs, varnishes, enamels.
Bulk-Flo: Link Belt Co., Chicago, elevator-conveyor-feeder.
BUNG BUSHING 638
Bunker Hill: Northwest Lead Co., Seattle, Wash., lead.
Buramine: Sharples Chemicals, Inc., Phila., Pa., tech. butyl urea.
Burgundy Pitch see Pitch Burgundy
Burmol: Laundry & Cleaners Supply Co., Toledo, O., bleaching pwdr
BURNERS, COAL 628
GAS (Industrial) 628
LABORATORY 628
OIL 628

BURNERS (cont'd)
OIL AND GAS COMBINATION 630
SULFUR 630
TAR 630
BURNISHING COMPOUNDS 489
Burnishing Specialties see Inka Burnishing; Soaps Burnishing
Burnt Alum see Alum Potash
Sugar Coloring see Caramel
Burtonizing Salts see Salts Burtonizing
Burton Salts: Wallerstein Co. Inc., N.Y.C., burtonizing salts.
Busco: Buffalo Scientific Co., Buffalo, disinf.
Buscolyte: Busco Prods Co., Buffalo, N.Y. metal cleaners.
BUSHINGS 630
DRUM 630
Bustrux: Warren Refg. & Chem. Co., Cleveland, Ohio, lubricant.
Butac: J. M. Huber Corp., N.Y.C., rubber softener.
Butacite: E. I. du Pont de Nemours & Co., Plastics Dept., Wilmington, Del., vinyl butyral resin.
BUTADIENE 141
Butalyde see Butyl Aldehyde
Butandione see Diacetyl
BUTANE 141
Butanediol see 2-3 Butylene Glycol
Butanol see Alcohol Butyl Normal
3-Buten-2-01 see Methyl Vinyl Carbinol
Butenal see Crotonaldehyde
BUTENE-1 141
BUTENE-2 141
2 Buten-1-ol see Alcohol Crotyl
Butevar: Shawinigan Prods. Corp., N. Y. C., polyvinyl butyral.
Butoben: Merck & Co., Rahway, N.J., mildew prevent.
Butoxybutane see Ether Normal Butyl
BUTOXYETHYLDIGLYCOL CARBONATE 141
STEARATE 141
Butterarome, Fritabro: Fritzsche Bros. Inc., N. Y. C., butter flavor base.
Butter of Antimony see Antimony Trichloride
Colors see Colors Butter and Cheese also Colors Food also Annatto
of Zinc see Zinc Chloride
Buttercup Yellow see Zinc Chromate
Butterite: Port Huron Detergent Co., Inc., Port Huron, Mich., neutralizer.
BUTTON-LAC 141
Butvar: Shawinigan Prods. Corp., N. Y. C., syn. resin.

BUTYL

BUTYL ACETATE NORMAL 141
ACETATE SECONDARY 142
ACETOACETATE 142
ACETYL RICINOLEATE 142
n-BUTYL ACID PHOSPHATE 142
BUTYL ACID PYROPHOSPHATE 142
n-BUTYLAMINE 143
BUTYL p-AMINOBENZOATE 143
BENZENE, SECONDARY 143
BENZENE TERTIARY 143
BUTYL BENZOATE 143
BENZYL SEBACATE 143
BORATE 143
BROMIDE (Iso) 143
BROMIDE SECONDARY 143
BROMIDE TERTIARY 143
n-BUTYL BROMIDE 143
BUTYRATE 143
Carbinol-Iso see Alcohol Amyl-iso
Carbitol see Ether Diethylene Glycol Monobutyl.
Cellosolve see Ether Ethylene Glycol Monobutyl.
p-tert-BUTYL CATECHOL 143
BUTYL "CELLOSOLVE" STEARATE 143
CITRATE 143
n-BUTYL DIETHANOLAMINE 143
ESTERS OF FATTY ACIDS 143
Ether of Diethylene Glycol see Diethylene Glycol Monobutyl Ether
ETHER, see Ether Butyl Normal
tert-BUTYL HYDROPEROXIDE 143
p-HYDROXYBENZOATE 143
Hydroxide see Alcohol Butyl Normal
IODIDE, Secondary 143
n-BUTYL IODIDE 144
BUTYL LACTATE, NORMAL 144
LITHIUM 144
MERCAPTAN, tert 144
n-BUTYL METHACRYLATE 144
BUTYL MYRISTATE 144
NAPHTHALENE SULFONATE 144
OLEATE 144
Oxalate see Dibutyl Oxalate
Oxide see Ether Normal Butyl
Parasept: Heyden Chem. Co., N.Y.C., Butyl Para-Hydroxy Benzoate
tert-BUTYL PERBENZOATE 144
Di-tert-BUTYL PEROXIDE 144
p-tert-BUTYL PHENOL 144
BUTYL PHOSPHATE 144
Phthalate see Dibutyl Phthalate
PROPIONATE 144
RICINOLEATE, NORMAL 144
STEARATE, NORMAL 144
UREA 144
Butylene see Butene
2-3 BUTYLENE GLYCOL 144
3-BUTYN-1-OL 144
3-BUTYN-2-OL 145
Butyl Tegosept: Goldschmidt Chemical Corp., N. Y., cosmetic absorption base.
Butyl Ten: R. T. Vanderbilt Co., N.Y.C., rubber accelerator.
1-Butyne see Ethyl Acetylene
n-BUTYRALDEHYDE 145
Butyraldehyde see Butyl Aldehyde
Butyrcaldehyde see Butyl Aldehyde
Butyric Acid see Acid Butyric
Aldehyde see Butyl Aldehyde
BUTYRIC ANHYDRIDE 145
Butyrone see Dipropyl Ketone
BUTYRYL CHLORIDE (Iso) 145
Buxine: Givaudan Delawanna, Inc., N.Y.C., amyl cinnamic aldehyde soap.
Buxite: Penetone Co., Tenafly, N. J., degreasing conc.

C

C-3: Pittsburgh Plate Glass Co., Columbia Chem. Div., Pittsburgh, Pa., calcium chloride.
C.64: Dow Chemical Co., Midland, Mich., aromatic chem.
C: Binney & Smith Co., N.Y.C., carbon black.
C: International Rustproof Corp., Cleveland, O., rust inhibiting primers.
C: Link-Belt Company, Indianapolis, class combination chain
"C2": Mathieson Chem. Corp., N.Y.C., pulp bleaching agent.
C-4 Brand: Coopers Creek Chem. Corp., Conshohocken, Pa., coal tar chemicals.
C-255: C. P. Hall Co., Akron, O., process oil.
C.A.S.: Wyandotte Chems. Corp., Wyandotte, Mich., acid neutralizer.
CB: Michigan Chemical Corp., St. Louis, Mich., fire extinguisher fluids.
C.C: Starr Mfg. & Chem. Co., Lima, O., solvent cleaner.
CCC: Calcium Carbonate Co., Chicago, Ill., calcium limestone.
"CCH": Mathieson Chem Corp., N.Y.C., industrial hypochlorite.
CCO White: Edwin R. Howell, Detroit, Mich., calcium sulphate
CM: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., fire retardant.
CMC: Hercules Powder Co., Wilmington, Del., cellulose gum.
CMH: Chicago Metal Hose Corp., Maywood, Ill., bellows.
"CMSZ" Mix: Electro Metallurgical Co., N. Y. C., ladle addition.
CN SL: Act Industries, Inc., N. Y. C., raw cashew nut shell liquid.
C-O-C-S: Niagara Chem. Div. Food Machinery Corp., Middleport, N. Y., copper oxychloride sulphate.
CP 15: Hooker Electrochem. Co., N.Y.C., chlorinated paraffin.
CP 20: Hooker Electrochem Co., N.Y.C., chlorinated paraffin.
CP: Hooker Electrochemical Co., Niagara Falls, N. Y., chlorinated paraffin.
CSW 15: Hooker Electrochem. Co., N.Y.C., chlorinated paraffin.
C-S-Z: McKesson & Robbins Bridgeport Conn. zinc stearate.
C.W.: Wyandotte Chems. Corp., Wyandotte, Mich., dairy detergent.
Cabax: Boler Petroleum Co., Phila., Pa., paraffin replacement.
Cabinet-San: Huntington Labs., Huntington, Ind., deodorant.
CABINETS, DRYING 630
FIRST AID 630
INSTRUMENT 630
LABORATORY 630
Cab-U-Cel: U. S. Gypsum Co., Chgo., lacq. thinner.
CABLE ELECTRIC 630
CABLE FILLING COMPOUNDS 490
WEATHERPROOFING COMPOUNDS 490
Cable Specialties see Coatings Cable; Greases Cable; Waxes Cable
Cacao Beans see Cocoa Beans.
Cachalot: M. Michel & Co., Inc., N. Y. C., higher fatty alcohols.
Cachou see Cutch
CACODYLATES 145
Cadalyte: Du Pont Co., Electrochemical Dept., Wilmington, cadmium plating compounds.
CADMIUM (the Metal) 145
ACETATE 145
BROMIDE 145
CARBONATE 145
CHLORIDE 145
COLORS 145
2-ETHYLHEXOATE 145
Hydrate see Cadmium Hydroxide
IODIDE 145
NAPHTHENATE 146
NITRATE 146
OXIDE 146
RICINOLEATE 146
SELENIDE 146
Specialties see Anodes Cadmium; Electroplating Solutions; Salts Electroplating
STEARATE 146
SULFATE 146
SULFIDE 146
TUNGSTATE 146
Wolframate see Cadmium Tungstate
Yellow see Cadmium Sulfide
Cadmolith yellow: Chem. & Pigments Co., Baltimore, Md., cadmium yellow lithopone.
Cadmolith Red: Chem. & Pigments Co., Baltimore, Md., cadmium red lithopone dry color.
CAESIUM 146
SALTS 146
CAFFEINE 146
ALKALOID 146
CITRATED 146
Cake-a-lite: Armstrong Chem. Co. Inc., Canandaigua, N. Y., mech. dishwashing.
Cake Alum see **Aluminum Sulfate**
Cal-A-Sal: George Callahan & Co., Inc., Closter, N. J., solid ammonium chloride.
Calbrite: Crosby Chemicals, Inc., De Ridder, La., limed rosin.
Cal-Nitro: Synth. Nitrogen Prods. Corp., N.Y.C., nitrogenous fertilizer.
CALANDRIAS 630
Calcene: Pittsburgh Plate Glass Co., Columbia Chem. Div., Pittsburgh, Pa., rubber pigment.
Calcene T: Pittsburgh Plate Glass Co., Pittsburgh, Pa., calcium carbonate.
Calcic Liver of Sulfur see **Calcium Sulfide and Lime Sulfur**
Calciform: Dehls & Stein, Inc., Newark, N. J., acidic disinfectant.
Calcined Baryta see **Barium Oxide**
Calcined Magnesia see **Magnesium Oxide**
CALCINING EQUIPMENT 630
Calcite see Calcium Carbonate and Chalk

CALCIUM

CALCIUM (Metal) 147
ACETATE 147
ALUMINATE 147

CALCIUM (cont'd)
ARSENATE 147
ARSENITE 147
BENZOATE 147
BENZYLPHTHALATE 147
Biphosphate see Calcium Phosphate Monobasic
BISULFITE 147
BORATE 147
BROMIDE 147
CACODYLATE 147
CAMPHORSULFONATE 147
CARBIDE 147
CARBONATE 148
CHLORIDE 149
CHLORIDE, Anhydrous 150
CHROMATE, ANHYDROUS 150
CITRATE 150
CYANAMIDE 150
CYANIDE 150
Dihydrogen Phosphate see Calcium Phosphate, Monobasic
2-ETHYLHEXOATE 150
FERROCYANIDE 150
FLUORIDE see also Fluorspar 151
FORMATE 151
GLUCONATE 151
GLUTAMATE 151
GLYCEROPHOSPHATE 151
GUAIACOL SULFONATE (Guaiacyl) 151
Hydrate see Lime Hydrated Chemical
HYDRIDE 151
HYDROXIDE see also Lime Hydrated Chemical 151
HYPOCHLORITE see also Bleaching Powder 151
HYPOPHOSPHITE 152
IODIDE 152
LACTATE 152
LACTOPHOSPHATE 152
LAURATE 152
LEVULINATE 152
LIGNIN SULFONATE 152
LINOLEATE 152
MAGNESIUM CHLORIDE 152
MANDELATE 152
MOLYBDATE 152
NAPHTHENATE 152
NICOTINATE 152
NITRATE 152
NITRIDE 153
OLEATE 153
Orthophosphate see Calcium Phosphate Tribasic
Orthotungstate see Calcium Tungstate
OXALATE 153
OXIDE 153
Oxide see Lime
Oxychloride see Bleaching Powder
PANTOTHENATE 153
PERCHLORATE 153
PERMANGANATE 153
PEROXIDE 153
PHOSPHATE DIBASIC 153
Phenosulfonate see Calcium Sulfocarbolate
Phosphate see Calcium Phosphate, Monobasic
PHOSPHATE HEMIBASIC 153
PHOSPHATE MONOBASIC 153
PHOSPHATE TRIBASIC 154
PROPIONATE 154
PYRO PHOSPHATE 154
RESINATE 154
RICINOLEATE 154
d-SACCHARATE 154
SALICYLATE 154
SILICATE 154
STEARATE 154
Stearinate see Calcium Stearate
SUCCINATE 155
SULFATE see also Gypsum 155
SULFATE Anhydrous 155
SULFIDE 155
Sulfidium Crudum see Lime Sulfur
SULFITE 155
SULFOCARBOLATE 155
TARTRATE 155
THEOBROMINE 155
THIOCYANATE 155
THIOGLYCOLATE 156
TITANATE 156
TUNGSTATE 156
UNDECYLENATE 156
ZIRCONATE SILICATE 156

Calcoacetate: Amer. Cyanamid Co., N. Y. C., dyes.
Calcochrome: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., dyes.
Calcocid: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., acid dyes.
Calcoda: Calbar Paint & Varnish Co., Phila., Pa., waterproofer.
Calcodur: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., dyes.
Calcofast: Amer. Cyanamid Co., Calco Chem. Co., Bound Brook, N. J., dyes.
Calcoform: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N.J., formaldehyde.
Calcogene: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., dyes.
Calcoloid: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., dyes.
Calcomine: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., dyes.
Calcomine Diazo: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., dyes.
Calconyl: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., dyes.
Calcophen: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., dyes.
Calcorene: Dacar Chemical Prod. Co., Pitts., Pa., water treatment.
Calcosol: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., dyes.
Calcotex: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., pigments.
Calcotone: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., pigment pastes.
Calcoxine: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., dyes.
Calgonite: Calgon, Inc., Ptsbgh., boer pipe cleaner.
Calgreen: Chipman Chem. Co. Inc., Bound Brook, N. J., insecticide.
Calinate: Harshaw Chem Co., Cleveland, O., calcium linoleate pulp.
Calmax: Ash Grove Lime & Portland Cement Co., Kansas City, Mo., calcium oxide.
Calmicro: Amer. Cyanamid Co., calcium carbonate.
Calo Blanc: U.S. Gypsum Co., Chgo., ground calcium sulfate anhydrous.
Calo-Clor: Mallinckrodt Chem. Wks., St. Louis, mercurial fungicide.
Calodorant: Oronite Chem. Co., San Fran., Calif., gas odorant.
Calogreen: Mallinckrodt Chem. Wks., St. Louis, mercurial fungicide.
Calol: Stand. Oil Co. (Calif.), San Fran., oils, greases, road oils.
Calomel see Mercurous Chloride
Calopone: U.S. Gypsum Co., Chgo., ground deadburned gypsum.
CALORIMETERS 630
Caloria: Esso Standard Oil Co., N. Y. C., oil and grease.
Calorie: Esso Standard Oil Co., N. Y. C.
Calsilite: Ruberoid Co., N.Y.C., pile covering blocks.
Cals-Oal-Ite: Mississippi Lime Co., Alton, Ill., limestone.
Cal-Talc: G. S. Robins & Co., St. Louis, Mo., agricultural dust carrier.
Caltec: Indus. Chem. Sales, Div. W. Va. Pulp & Paper Co., N. Y. C., precipitated calcium carbonate.
Cal-Tex: Austin White Lime Co., Travis County, Texas, limestone.
Calumet: Standard Oil Co. (Indiana), Chicago, Ill., viscous lubricants.
Calux: Amer. Luminous Products Co., Huntington Park, Calif., luminous paint.
Calvert: United Clay Mines Corp., Trenton, N.J., speckled tile clay.
Calx see Lime
Calx Chlorinata see Bleaching Powder
Sulfurata see Lime Sulfur
Cambar: Esso Standard Oil Co., N. Y. C., lime base.
Cambar Lubricant: Esso Standard Oil Co., N. Y. C., high temp. block grease.
Cambogia see Gum Gamboge
Camel: Amer. Agric. Chem. Co., N.Y.C., mixed fert.
Camelwite: Jensen & McClelland, Chicago, Ill., whiting.
Cam-O-Sass: Magnus, Mabee & Reynard, Inc., N. Y. C.,
Camotex: Stahl Finish Co., Peabody, Mass., resin finishes.
Camphanol see Borneol
CAMPHENE 156
Camphenol: Chemo Purp Mfg. Corp., L. I. City, N.Y., synth. camphor.

CAMPHOR

CAMPHOR MONOBROMATED 156
NATURAL 156
SYNTHETIC 156
Baras see Borneol
Oil see Oil Camphor
CAMPHORIC ANHYDRIDE 157
CAMPHOSULFONATES 157
Campol: Cole & Degraf, San Francisco, Calif., tall oil.
Cam-Seal: Homestead Valve Mfg. Co., Coraopolis, Pa., plug valves.
Camwood: Amer. Dye-wood Co., Belleville, N.J., natural (mordant) dyes.
CAN FILLING MACHINES 630
LABELING MACHINES 630
SPOUTS AND NOZZLES 630
Canada Turpentine see Balsam Canada
Canadol see Benzine and Petroleum Ether
Canarium see Gum Elemi
Canawax: Internat'l Wax Refg. Corp., B'klyn, N.Y., carnauba substitute.
Candelilla Wax see Wax Candelilla
Canes: Carus Chemical Co., LaSalle, Ill., hydroquinone.
Cannibal: John Sunshine Chem. Co., Inc., Chicago, Ill., pipe cleaner.
Canning Specialties see Glues Can; Lacquers Can; Waxes Canning; Sealers Can
CANS, FIBRE AND PAPER 630
FIBRE & METAL COMPOSITE 630
LEAD 630
LITHOGRAPHED 630
SAFETY 630
STEEL 630
TIN 630
Canthus: Esso Standard Oil Co., N. Y. C., straight mineral oils.
Cantona: Esso Standard Oil Co., N. Y. C., filtered steam cylinder oils.
Capacilog: Wheelco Instruments Co., Chicago, Ill., electronic scriber.
Capacitrol: Wheelco Instruments Co., Chicago, Ill., electronic pyrometer controllers.
Capaderm: Ciba Co., N.Y.C., leather finish.
Capico: Capitol Printing Ink Co., Inc., Washington, D.C., prtg. inks.
CAPPING MACHINERY 630
Caproyl Hydride see Hexane
Caprylic Aldehyde see Octyl Aldehyde
CAPRYL BENZYL SEBACATE 157
CAPRYLYL CHLORIDE 157
CAPS, BOTTLE 630
CAPS AND SEALS, BOTTLE 630
METAL 630
MOLDED 630
Cap-Sealing Compounds see Sealers Can; also Sealers Bottle
Capstan: Stephens-Adamson Mfg Co., Aurora, Ill., car pullers
Capstix: Atlas Powder Co., Wilmington, Del., Primers for explosives.
Captax: R. T. Vanderbilt Co., Inc., N.Y.C., rub. accel.
Caput Mortuum see Iron Oxide, Red
Capyco & Glendon: United Feldspar & Mins Corp., N.Y.C., prophyllite.
CAR LOADERS, PORTABLE 630
CAR SPOTTERS 630
Car Unloaders see Unloaders, Car.
CARAMEL 157
Carbamide see Urea
CARBARBONE 157
Carbasol: C. J. Osborn Co., N.Y.C., syn. resin.
Carbatone: Imperial Chem. Co., Los Angeles, Calif., solvent soap.
CARBAZOLE see also Diphenylimide 157
Carbic: Linde Air Prods. Co., N.Y.C., processed calcium carbide
Carbinol see Methanol

Carbinols see Alcohol Amyl Normal; Alcohol Isoamyl; Alcohol Amyl Secondary; Alcohol Amyl Tertiary, etc.
Carbitol see Ether Diethylene Glycol Monoethyl.
"CARBITOL" PHTHALATE 157
Carbo: Carborundum Co., Perth Amboy, N. J.
Carbo: Rodman Chemical Co., Verona, Pa., carburizing compounds.
Carbo-atlastical: Atlas Mineral Prods. Co., Mertstown, Pa., corrosion-proof lining.
Carbocell: National Carbon Co., Inc., N. Y. C., filters and diffusers.
Carbocera: General Wax Refining Co., N.Y.C., carnauba substt.
Carbofene: C.J. Osborn Co., N.Y.C., syn. resin.
Carbo-Fix: Carboline Co., St. Louis, Mo., acid proof cement.
Carbo-Flex: Carboline Co., St. Louis, Mo., acid proof floor covering.
Carbotrax: The Carborundum Co., Perth Amboy, N.J., refractories, boiler cement.
Carbo-Insulate: Carboline Co., St. Louis, Mo., acid proof insulator.
Carbo-Korex: The Atlas Mineral Products Co., Mertstown, Pa., acid-proof cement.
Carbo-Kote: Carboline Co., St. Louis, Mo., thermo-setting paint.
Carbolic Acid Crystals see Acid Carbolic
Carbolina: Binney & Smith Co., N.Y.C., black pigment.
Carbolite: The Linde Air Prods. Co., N. Y. C., calcium carbide.
Carbolon: Exolon Co., Tonawanda, N. Y., silicon carbide.

CARBON

Carbo-Mold: Carboline Co., St. Louis, Mo., molding compound.
CARBON (Rods, Blocks, Paste, etc.) 630
CARBON ACTIVATED 157
Anodes see Anodes Carbon
Bichloride see Tetrachlorethylene
BISULFIDE 158
BLACK 158
Clarifying see Carbon Activated.
Decolorizing see Carbon Activated.
Deodorizing see Carbon Activated
Dichloride see Tetrachlorethylene
DIOXIDE 159
Disulfide see Carbon Bisulfide
Hexachloride see Hexachlorethane
MONOXIDE 160
Paper Colors see Colors Carbon Paper
Removers see Removers Carbon Motor
TETRACHLORIDE 160
Trichloride see Hexachlorethane
WELDING 490
Gas see Carbon Dioxide
Carbonex: Barrett Div., Allied Chem. & Dye Corp., N.Y.C., rubber softener.
Carbonic Gas see Carbon Dioxide
Carbonizing coating: Vita-Var Corp., Newark, N. J., steel fabrication.
Carbonizing Penetrants see Penetrants Carbonizing
Carbonex: Baroid Sales Div., Nat'l Lead Co., Los Angeles, Calif., organic dispersant.
Carbonyl Chloride see Phosgene
Carbonyldiamide see Urea
Carboplastic: Carborundum Co., Perth Amboy, N. J.
Carboradiant: Carborundum Co., Perth Amboy, N. J.
Carboride: Linick Chem. Co., Chicago, Ill., casting cover flux.
Carbose: Gross Drug Co., Harrisburg, Pa., detergency promoter.
Carbose: Wyandotte Chems. Corp., Wyandotte, Mich., sodium carboxymethyl cellulose.
Carbosota: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., wood preservative.
Carbovar: Godfrey L. Cabot, Inc., Boston, carbon black.
Carbo-Vitrobond: Atlas Mineral Prods. Co., Mertstown, Pa., acid-proof cement.
Carbo-Wax: Carbide & Carbon Chemicals Corp., N Y. C., water-sol. solids.
Carboxy-Ethane see Acid Propionic
Carboxylic Acid Anhydride see Phenolphthalein.
CARBOXYMETHYLCELLULOSE 161
-Methyl Chloride see Acid Chloroacetic, Di
-Propylene see Acid Crotonic
CARBOY TILTING FRAMES 630
CARBOYS GLASS 630
STONEWARE 630
CARBROMAL 161
CARBURIZING COMPOUNDS 490
Carclad: Sherwin-Williams Co., Chicago, Ill., finishes.
Caree Roach Spray: W. D. Carpenter Co., Inc., Syracuse, N. Y., roach killer.
Caree Type Cleaner: Carman & Co. Inc., N. Y. C., marking machine cleaner.
Cardis: Sun Chemical Corp., L. I. City, N. Y., petroleum wax.
Cardolite: Irvington Varnish & Insulator Co., Irvington, N. J., cashew resins.
Cardomide: Irvington Varnish & Insulator Co., Irvington, N. J., urea resins.
Careycel: Philip Carey Mfg. Co., Cincinnati, O., pipe covering.
Careystone: Philip Carey Mfg. Co., Cincinnati, O., asbestos cement board.
Cargo: Fleet Oil Co., Inc., La Follette, Tenn., anti-freeze compound.
Carilloy: Carnegie-Ill. Steel Corp., Pittsburgh, Pa., alloy steel.
Carloader: Clark Equipt. Co., Battle Creek, Mich., fork-lift trucks.
Carltonite: Carlton Chem Co., Inc., N. Y. C., textile sizing.
Carnation: L. Sonneborn Sons, N.Y.C., divider oils.
Carnauba Wax see Wax Carnauba
Carnaubit: Tilbury Bel'g Corp., B'klyn, N.Y., carnauba wax sub.
Carnotic-ol: Sherwin-Williams Co., Cleveland, wood preserv.
Carnot's Reagent see Bismuth Nitrate
Carogant: Hart Prods. Corp., N. Y. C., detergent sizing.
Car-O-Lin: Schaffer-Moss Chem. Corp., Pittsburgh, Pa., thinning oil.
CAROTENE 163
Carpenter: Emery-Carpenter Container Co., Cincinnati, O., drum.
Carpet Cleaning Compounds see Cleaners Rug
CARRAGHEEN EXTRACTS 163
Carrene see Methylene Chloride
Carsa: Boler Petroleum Co., Phila., Pa., Carnauba substitute.
Cartesian: Emil Greiner, N. Y. C., manostats.
Carthamus see Saffron, American
Carthol: Cabell Chemical Co., Huntington, W. Va., disinfectant.
CARTON HANDLING SYSTEMS 630
Ink see Inks Carton
SEALING MACHINES 630
Carum: Esso Standard Oil Co., N. Y. C., grease-type lub.
CARVACROL see also Chemicals Aromatic 163
Caryophil Oil see Oil Cloves
Cascade: The Linde Air Prods. Co., N. Y. C., oxygen and nitrogen.
Cascade Blue: Ansbacher-Siegle Corp., Rosebank, S. I., N. Y., victoria blue.
Cascamite: Borden Co., N. Y. C., powd. urea resin glues.
Casco: Borden Co., N. Y. C., casein glues.
Casco-resin: Borden Co., N. Y. C., liquid urea resin glues.
Cascophen: Borden Co., N Y. C., phenol & resorcin resin glues.
Cascores: Borden Co., N. Y. C. polyvinyl resin glues.
CASE HARDENING MATERIALS 490
Case-Hardo: C. S. Buchanan Chem. Co., Cinn., Ohio.
Caselite: Case Hardening Service Co., Cleveland, O., case hardening materials.
CASE SEALING MACHINES 631

CASEIN

CASEIN, EDIBLE 163
Glues see Glues Casein
INEDIBLE 163
Specialties see Glues Casein; Paints Casein; Plaster Casein; Solvents Casein
Casboo see Cutch
Cassava see Tapioca Flour
Cassel Brown see Vandyke Brown
Earth see Vandyke Brown
Castaloy: Fisher Scientific Co., Pittsburgh, Pa.
Castan: Esso Standard Oil Co., N. Y. C., lubricants.
Castile Soap see Soap Castile
CASTINGS 631
ALLOY 631
ALUMINUM 631
BRASS 631
BRONZE 631
CHROMIUM STEEL 631
IRON 631
LEAD 631
MANGANESE STEEL 631
NICKEL 631
NICKEL ALLOYS 631
SEMI-STEEL 631
STAINLESS 631
STEEL 631
Cas-To-Fit: The Robinson Clay Product Co., Akron, O., water setting castable refractory.
CASTOR BEAN 163
Meal see Castor Pomace
Oil see Oil Castor
Castor Latex: Baker Castor Oil Co., N.Y.C., castor oil dispersion.
CASTOR OIL ACETYLATED 163
BLOWN 163
PROCESSED 163
CASTOR POMACE 163
Castordag: Acheson Colloids Corp., Port Huron, Mich., colloidal graphite.
Castorwax: Baker Castor Oil Co., N. Y. C., hydrogenated castor oil.
Cast-Refract: Quigley Co., Inc., N.Y.C., refractory.
Castroleum: Esso Standard Oil Co., N. Y. C., time-base greases.
Castrolites: Royce Chem. Co., Carlton Hill, N.J., sulf. castor oil, text.
Castung: Baker Castor Oil Co., N. Y. C., dehydrated castor oil.
Casual: Lunkenheimer Co., Cincinnati, O., gate valve.
Catalite: Du Pont Co., Dyestuffs Div., Wilmington, Del., paste.
Catalox Driers: Ferro Chemical Corp., Bedford, Ohio, octoate driers.
CATALYST SUPPORTS, BAUXITE 490
FULLERS EARTH 490
Catechol see Pyrocatechol
Catechu Gum see Cutch
Catex: Infilco, Inc., Chicago, Ill., ion exchange.
Catexer: Infilco, Inc., Chicago, Ill., ion exchanger plants.
Catiosans: Onyx Oil & Chem. Co., Jersey City, N. J., germicidal detergents.
Cattle Dips see Dips, Animal
Spray Bases see Spray Base, Cattle
Catylon: The Hart Products Corp., N.Y.C., text. softener.
CAULKING COMPOUNDS 490
Caulk-O-Seal: Calbar Paint & Varn. Co., Phila., caulking & glazing comps.
Caulktex: Ever-Plastics Corp., N. Y. C., caulking.
Caustic Antimony see Antimony Chloride
Baryta see Barium Hydroxide
Potash see Potassium Hydroxide
Soda see Soda Caustic
"Causul": Lunkenheimer Co., Cincinnati, O., valves.
Cazar: Esso Standard Oil Co., N. Y. C., lime-base greases.
Cedarbrette: Dow Chemical Co., Midland, Mich., aromatic chem.
Cedar Hollow: Warner Co., Phila., Pa., lime-high magnesium.
CEDROL 163
Cee-Dee Powder: Rhodes Chemical Corp., Plainfield, N. J., quaternary sanitizer.
Ceil-Por: Ceilcote Co., Cleveland, O., coating.
Ceil-Prep: Ceilcote Co., Cleveland, Ohio, rust remover.
Celac: Horn, Jeffreys & Co., Burbank, Calif., film scrap.
Celanese Dyes see Dyes Acetate
Celanol: Maher Color & Chem. Co., Chicago, Ill., levelling agts.
Celanthrene: Du Pont Co., Dyestuffs Div., Wilmington, Del., dyes.
Celdo Gard: Thompson Hayward Chem. Co., Kansas City, Mo., wood preservative.
Celeritas: A. Daigger & Co., Chgo., filter paper.
Celestin see Strontium Sulfate
Celfon: General Dyestuff Corp., N.Y.C., permanent finish.
Celite: Johns-Manville Corp., N.Y.C., diatomaceous earth.
Cellaprot: General Dyestuff Corp., N.Y.C., sizing and finishing agent.
Cellisarol: General Dyestuff Corp., N. Y. C., acetate rayon dye.
Cellit: General Dyestuff Corp., N.Y.C., ac. rayon dye.
Cellitazol: Gen'l Dyestuff Corp., N.Y.C., developed dyes (acet. silk).
Celliton: Gen'l Dyestuff Corp., N.Y.C., acetate dyes.
Cello-Bond: Painley Prods., Inc., Chicago, Ill., cellophane cement.
Cell-O-Cast: Multi-Mold Products, N.Y.C., cellulose acetate butyrate.

Cellolyn: Hercules Powder Co., Wilmington, Del., syn. resin.
Cellomass: H. Reeve Angel & Co. Inc., N. Y. C., filtermass.
Cellument: Hughes Glue Co., Detroit, Mich., nitrocellulose cement.
Cellon see Acetylene Tetrachloride
Cellosolve see Ether Ethylene Glycol Monoethyl
Cellosolve Acetate see Ethylene Glycol Monoethyl Ether Acetate
Celle-Stick: Varniton Co., Burbank, Calif., cellophane adhesive.
Celle-Weld: Polymer Chemical Co., Cincinnati, O., bonding cement.
Celluxan: General Dyestuff Corp., N.Y.C., dyeing & printing assistant.

CELLS, CAUSTIC 631
- **CONDUCTIVITY** 631
- **ELECTROLYTIC** 631
- **FLOTATION** 631
- **PHOTOELECTRIC** 631
- **SALT BRINE ELECTROLYSIS** 631

Cellnicide: Thompson Horticultural Chems. Corp., Los Angeles, Calif., wood preservative.
Cellulex: Celanese Corp. of America, N.Y.C., plasticiser.
Cellulloc: Puget Sound Pulp & Timber Co., Bellingham, Wash., flocculated cellulose.
Cellulube: Celanese Corp. of Amer., N.Y.C., high film lubricating oil, additive.

CELLULOSE ACETATE 163
- **ACETATE BUTYRATE** 164
- **ACETATE LACQUER** 164
- **ACETATE PROPIONATE** 164
- **CHEMICAL COTTON** 164
- **FLOCK** 164
- **NITRATE** 164
- **SHEET & BULK** 164

Specialties see Dopes Lacquer; Plastics Cellulose Acetate; Lacquers Cellulose Base
Cellusealer: Southern Lacquer Co., Baltimore, Md., wood sealer.
Celomite: Chrystal Co. Inc., Charles B., N.Y.C., diatomaceous earth.
Celrasix: C. B. Hewitt & Bros. Inc., N. Y. C., for celanese.
Celutate: Zinsser & Co. Hastings-on Hudson, N.Y., coal-tar dyes.
Celvacene: Distillation Prod. Industries, Rochester, N. Y., grease.
Celvacene: Eastman Kodak Co., Rochester, N.Y., seal for vacuum apparatus.
Cem-Aid: Binney & Smith Co., N.Y.C., carbon black for cement color.
Cem Beads: Binney & Smith Co., N.Y.C., carbon black for cement color.
Cemcoat: Sonneborn Sons, Inc., N.Y.C., waterproof. paint.

CEMENTS

CEMENTS, ACID PROOF 490
- **ASBESTOS** 491
- **ASPHALT** 491
- **BELT** 491
- **BOILER** 491
- **BOOKBINDERS** 491
- **BRICK** 491
- **BRISTLE-SETTING** 491
- **CARPET** 491
- **CELLULOID** 491
- **CORK** 491
- **ELECTRICAL RESISTING** 491
- **ENGRAVERS** 492
- **FABRIC CANVAS** 492
- **FELT** 492
- **FILLERS** 492
- **FILM PHOTOGRAPHIC** 492
- **FOUNDRY** 492
- **FURNACE** 492
- **GASKET** 492
- **GLAZING** 492
- **GRAPHITE** 492
- **INSULATING** 492
- **LABORATORY** 492
- **LAMP BASING** 492
- **LINOLEUM** 492
- **OIL-PROOF** 492
- **PLASTIC** 492
- **PLASTIC, COAL TAR** 493
- **PYROXYLIN** 493
- **REFRACTORY** 493
- **ROOFING** 493
- **RUBBER** 493
- **RUBBER TILE** 493
- **SULFUR** 493
- **TRANSPARENT** 493
- **WATERPROOFING** 493

Cementhide: Pittsburgh Plate Glass Co., Pittsburgh, Pa., cement paint.
Cementico: U. S. Gypsum Co., Chgo., cement paint.
Cementkote: Tropical Paint & Oil Co., Cleveland, O., oil base paint.
Cenco: Central Scientific Co., Chicago, Ill., pumps.
Cenilab: Central Illinois Labs., Inc., Peoria, Ill., **water treatments.**
Cenilabsol: Central Illinois Labs., Inc., Peoria, Ill., wetting agents.
Centerflex: Russell Mfg. Co., Middletown, Conn., belting.
Centifolio!: Fritzsche Bros. Inc., N. Y. C., butter flavor base.
Centracore: Precision Scientific Co., Chicago, centrifugal.

CENTRIFUGAL DUST COLLECTORS 631

CENTRIFUGES, AUTOMATIC 631
- **BASKET** 632
- **CLARIFYING** 632
- **CONTINUOUS** 632
- **DISK** 632
- **HIGH SPEED** 632
- **LABORATORY** 632
- **LEAD LINED** 632
- **MICRO-CHEMICAL** 632
- **REFRIGERATED** 632
- **RUBBER LINED** 632
- **SELF-DISCHARGING** 632

Centrimax: Leeds & Northrup Co., Phila., Pa., flow meters.
Centri-Poise: Alsop Engr. Corp., Millidale, Conn., pumps.
Century: Coddington Mfg. Co., Milwaukee, Wisc., cement sealer.
Century: Keasby & Mattison Co., Ambler, Pa., asbestos roofing.
20th Century Bactericide: Parsons Chem. Works, Grand Ledge, Mich., sanitizer.
Century Wash: Parsons Chem. Works, Grand Ledge, Mich., cleaner.
Cephaelis see Ipecac Root
Cera Flava see Wax Bees
Ceralan: Robinson Wagner Co., Inc., N.Y.C., lanolin alcohol.
Ceraloid: Colloids Inc., Newark, N. J., waxes.
Ceramic: J. M. Huber Corp., N.Y.C., clay.
Ceramic Frits see Frits Ceramic Glaze
Colors see Colors Ceramic Resistant
Stains see Stains Body and Slip

CERAMIC MATERIALS 632

Ceramicweld: Pacific Clay Products, Los Angeles, Calif., clay pipe.
Ceramid: Glyco Prods. Co., Inc., Bklyn., N. Y., syn. waxes.
Ceranine: Sandoz Chem. Wks., Inc., N. Y. C., cationic finish.
Cerate: N. Y. Color & Chem. Co., Belleville, N.J., oil dyes.
Ceratherm 500: U. S. Stoneware Co., N. Y. C.
Ceraware: General Ceramics & Steatite Corp., Keasbey, N. J., stoneware.
Cerawite: General Ceramics & Steatite Corp., Keasbey, N.J., porcelain.
Cerax: General Wax Refining Co., N.Y.C., carnauba sub.
Cerelose: Corn Prods. Refg. Co., N. Y. C., dextrose.
Cerepel: Ceresit Waterproofing Corp., Chicago, Ill., paint.
Ceres: General Dyestuff Corp., N.Y.C., fast candle and wax dye.
Ceresan: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., seed disinfectant.
Ceresin Wax see Wax Ceresin

CERESINS SYNTHETIC 164

Cerex: Monsanto Chem. Co., Plastics Div., Springfield, Mass., thermoplastic molding granules.
Cerfak: E. F. Houghton & Co., Philadelphia, Pa., syn. detergents.
Ceric Oxide see Cerium Oxide

CERIC SALTS 164

Cerii Oxalas see Cerium Oxalate
Cerin see Wax Ceresin
Cerita: Mamaroneck Chem. Corp., Mamaroneck, N. Y., waxes.

CERIUM (the Metal) 164
- Dioxide see Cerium Oxide
- **HYDROXIDE** 164
- **NAPHTHENATE** 164
- **NITRATE** 164
- **OXALATE** 164
- **OXIDE** 164

Cerofast: Chem. Specialties Co., Chicago, Ill., glass polish.
Ceroflex: General Wax Refining Co., N.Y.C., wax.
Cerol: Sandoz Chem. Wks., Inc., N. Y. C., waterproofing agt.
Cerosin see Wax Ceresin
Cerous Oxalate see Cerium Oxalate

CEROUS SALTS 164

Cerusa see Lead White
Cerussa see Lead White
Certified: Bradshaw-Praeger & Co., Chicago, Ill., shellac.
Certified: Cooper Alloy Foundry Co., Hillside, N. J., valves.
Certified Spheron: Godfrey L. Cabot, Inc., Boston, carbon black.
Certified: Wilbert Prods. Co. Inc., N. Y. C., flavors & extract.
Certo-o-kill: Planetary Chem. Co., Creve Coeur, Mo., miscible DDT concentrate.
Cetac: Rhodes Chem. Corp., Plainfield, N. J., cetyl trimethyl ammonium chloride.
Cetaceum see Wax Spermaceti
Cetab: Rhodes Chemical Corp., Plainfield, N. J., quaternary germicide.
Cetal see Alcohol Cetyl
Cetanol: Chemo Puro Mfg. Corp., L.I. City, N.Y., absorption base.

CETYL BROMIDE 165
- **CHLORIDE** 165
- **DIMETHYL BENZYL AMMONIUM CHLORIDE** 165
- **DIMETHYL ETHYL AMMONIUM BROMIDE** 165
- **IODIDE** 165
- **PYRIDINIUM BROMIDE** 165
- **PYRIDINIUM CHLORIDE** 165
- **TRI METHYL AMMONIUM BROMIDE** 165

Zephiran see Cetyl Benzyl Ammonium Chloride
Cetylon: Rhodes Chem. Corp., Plainfield, N. J., cetyl dimethyl benzyl am. bromide.
Cevitamic Acid see Acid Ascorbic
Ceyssatite see Diatomaceous Earth
Chain Coatings see Coatings Cable; Coatings Chain
Chainomatic: Christian Becker, Clifton, N. J., chain weighing device.

CHAINS, ALLOY 632
- **CONVEYOR** 632
- **IRON AND STEEL** 632
- **POWER TRANSMISSION** 632
- **ROLLER** 632
- **SILENT** 632

Chalarr see Ethyl Chloride

CHALK 165

Challenger: Amer. LaFrance Foamite Corp., Elmira, N. Y., foam engine.
Challenger: Link-Belt Company, Chicago, underfeed screw-type stoker.
Champa: Denver Fire Clay Co., Denver, Colo., fire brick.
Champacol: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Champion: Division Lead Co., Chicago, Ill., solder.
Champion: Link-Belt Company, Chicago, underfeed screw-type stoker.
Champion: Peerless Pump Div., Los Angeles, Calif., deep well pumps.
Change Master: Stephens-Adamson Mfg. Co., Aurora, Ill., variable speed transmissions.
Channel Black see Carbon Black

CHARCOAL see also Bone Black 165

CHARCOAL (activated) 165
- Filters see Filters Charcoal

Charg-A-Can: Eaton Chemicals, Inc., Los Angeles, Calif., refrigerant.
Charlotte: G. M. T. Colloid Mill Corp., N. Y. C.
Charlton White see Lithopone
Charon: Godfrey L. Cabot, Inc., Boston, carbon black.
Checkfyre: Associated Sales & Supply Co., St. Louis, Mo., fire retarder.
Cheese Wax: General Wax Refining Co., N.Y.C., for Cheese coating.
Chek: Per-Mo Prods. Co., Kansas City, Mo., rat deodorant.
Chek Bac: Central O-B Products Co. Inc., Buffalo, N.Y., quat. ammonium chloride compound.
Chemecut: Chemco Prod. Co. Inc., Chicago, Ill., sol. cutting oil.
Chemecdraw: Chemco Prod. Co. Inc., Chicago, Ill., metal drawing compound.
Chemecforge: Chemco Prod. Co. Inc., Chicago, Ill., forging comp. water sol.
Chemecgrind: Chemco Prod. Co. Inc., Chicago, Ill., sol. grinding oil.
Chem-Fog: Chemical Insecticide Corp., Brooklyn, N. Y., insecticides.
Chemgard: Mine Safety Appliances Co., Pittsburgh, Pa., plastic aprons.
Chem-Hex: Chemical Insecticide Corp., Brooklyn, N. Y., insecticides.
Chemical Fertilizers see Fertilizers Chemical Concentrated
Lime see Lime Chemical
Pigments see Pigments Chemical

CHEMICAL PROCESS EQUIPMENT 632
Red see Iron Oxide Red

CHEMICALS

CHEMICALS ANALYTICAL 166
AROMATIC see also Cinnamic Formate 168
ELECTROPLATING 170
pH 170
PHARMACEUTICAL 170
PHOTOGRAPHIC 174

Chemicolor: Tropical Paint & Oil Co., Cleveland, O., chem. resist enamel.
Chemigums: Chem. Div., Goodyear Tire & Rubber Co., Akron, Ohio, syn. rubber.
Chemineal: U. S. Gasket Co., Camden, N. J., teflon jacketed.
Chemisol: Western Mich. Chem. Co., Muskegon, Mich., concrete floor cleaner.
Chem-Lin: Chemical Insecticide Corp., Brooklyn, N. Y., insecticides.
Chem-O-Feeder: Proportioneers Inc., Providence, R.I., duple pumps & chems.
Chemogin: Chemo Puro Mfg. Corp., L.I. City, N.Y., alcohol.
Chemogum: Chemo Puro Mfg. Corp., L. I. City., N. Y., carboxymethylcellulose.
Chemosept: Chemo Puro Mfg. Corp., Long Is. City, N. Y., hydroxybenzoates.
Chemosol: Chemo Puro Mfg. Corp., L. I. City, N. Y., cosmetic preservative.
Chemosterin: Chemo Puro Mfg. Corp., L. I. City, N. Y., cosmetic emulsifiers.
Chemox: Mine Safety Appliances Co., Pittsburgh, Pa., oxygen breathing apparatus.
Chemtite-Rock Enamels: Maas & Waldstein Co., Newark, N.J., plating racks.
Chemoxided: Colonial Alloys Co., Phila., Pa., aluminum forms.
Chem-Phene: Chemical Insecticide Corp., Brooklyn, N. Y., insecticides.
Chemputer: Poleman Instruments Inc., Maywood, Ill., calculator.
Chem-Tol: Chemical Insecticide Corp., Brooklyn, N. Y., insecticides.
Chem-Weed: Chemical Insecticide Corp., Brooklyn, N. Y., weed killer.
Chem-Weld: Bethlehem Fdry. & Mach. Co., Bethlehem, Pa., fabricated equipt.
Chemco: Chemical Engineering Co., Dallas, Texas, neutral brine.
Chenevert: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Cherokee: R. T. Vanderbilt Co., N.Y.C., pottery clay.

CHESTNUT EXTRACT 174

Chewco: Chemical Equipt. Co., Los Angeles, Calif.
Chex: Cidex Corp., Jersey City, N.J., mildewcide.
Chicle see Gum Chicle
Substitute see Gum Araban
Chief: Circo Products Co., Cleveland, Ohio, metal degreasers.
Chile Saltpetre see Sodium Nitrate

CHILLING ROLLS 635

CHILL Paste Oils see Oils Chill Paste
China Bark see Soap Bark
Clay see Clays China
China Glo: Crescent Chemical Corp., Perth Amboy, N. J., dishwashing compound.
Glue see Glues China and Glass
China-Brite: Industrial Chem. Prods. Co., Phila., Pa., dishwashing comp.
China-Brite: Peerless Chem. Co., Baltimore, Md., detergent.
China-Lac: Adelphi Paint & Color Wks., Ozone Pk., varnishes.
China Oil see Balsam Peruvian
Chinese Bean Oil see Oil Soya Bean
Blue see Prussian Blue
Isinglass see Agar
Oil of Cinnamon see Oil Cassia
Chinese Vermilion see Mercury Sulfide Red
Chinese White see Zinc Oxide.

CHINIOFON 174

Chinoline see Quinoline
Chinone see Quinone.

CHIPPERS 635

Chippewa Flakes: Wyandotte Chems. Corp., Wyandotte, Mich., bottle washing compound.
Chlo-Dur: Brooklyn Varnish Mfg. Co., Inc., B'klyn, N.Y., rubber finishes.
3: Chlor: 2: Hydroxy Biphenyl see 6: Chlor Orthoxenol
Chlor Isopropyl see Propylene Chlor Hydrin.
Chlor Kil: Niagara Chem. Div. Food Machinery & Chem. Corp, N.Y.C., chlordane.
2: Chlor-4-Nitroaniline see also Orthochlor Paranitraniline
2-Chlor-Paraxenol see 2-Chloro-4-Phenylphenol
6-Chlor-Orthoxenol see 6-Chloro-2-Phenylphenol

CHLORAL 174
CHLORAL HYDRATE 174

Chlorallyl Alcohol see 1-Chloro, 3-Hydroxy-Propene I
Chlorallylene see Allyl Chloride
Chloralum see Aluminum Chloride
Chloramine: Sandoz Chem. Wks., Inc., N. Y. C., direct dyestuffs.

CHLORAMINE B 175
CHLORAMINE T, DI 175
CHLORAMINE T, MONO 175

Chloranthraquinone see Beta Chloroanthraquinone
Chlorate of Potash see Potassium Chlorate
Chlorax: Chipman Chemical Co., Inc., Bound Brook, N.J., weed killer.
Chlorbenzene see Monochlorbenzene
Chlorbenzol see Monochlorbenzene
Chlorbenzol Phenyl Chloride see Monochlorbenzene
Chlorclad: Carboline Co., St. Louis, Mo., chlorinated rubber paint.
Chlordane: Wallach-Gracer Export Corp., N. Y. C., insecticide.
Chlorethane see Ethyl Chloride
Chlorethanol see Ethylene Chlorohydrin
Chloretone see Chlorbutanol
Chlorextol: Allis-Chalmers, Milwaukee, Wisc., non-flammable insulating liquid.
Chloride of Lime see Bleaching Powder
Chlorimet: Duriron Co. Inc., Dayton, Ohio, nickel-moly alloy.
Chlorin see Dinitroresorcinol

CHLORINATED DIPHENYL 175

Lime see Bleaching Powder
Naphthalenes see Alphachlornaphthalene; Monochlornaphthalene; Chlornaphthalene

PARAFFIN 175

Rubber Paints see Paints Chlorinated Rubber

CHLORINE 175
DIOXIDE 177
CHLORINATING EQUIPMENT 635
CHLORINE CONTROL APPARATUS 635
CHLOROACETAMIDE 177
o-CHLORO-ACETOACETANILIDE 177

Chlor Isopropyl see Propylene Chlorhydrin
Chlorite: Western Michigan Chemical Co., Muskegon, Mich., bleach.
Chlormet: Duriron Co., Dayton, O., alloy & chrome.
2-Chlor, 4-Nitroaniline see Orthochlorparanitraniline
Chlorocide: Thompson Horticultural Chems. Corp., Los Angeles, Calif., insecticide.
Chloro Green: Pylam Prods. Co., Inc., N. Y. C., soap dye.

CHLOROACETONE 177
CHLOROACETOPHENONE 177
CHLOROACETYL CHLORIDE 177

4-Chloro-2-Amino Anisole see Chloroanisidine
Isinglass see Agar

m-CHLOROANILINE 177
o-CHLOROANILINE 177
p-CHLOROANILINE 177
CHLOROANISIDINE 178
b-CHLOROANTHRAQUINONE 178

Chlorobenzaldehyde see Benzoyl Chloride

o-CHLOROBENZALDEHYDE 178
p-CHLOROBENZALDEHYDE 178
CHLOROBENZOL 178

Chlorobenzol Benzene Chloride see Monochlorobenzene

b-CHLOROBENZOTRIAZOLE 178
o-CHLOROBENZOTRICHLORIDE 178
p-CHLOROBENZOTRICHLORIDE 178
o-CHLOROBENZOYLCHLORIDE 178
p-CHLOROBENZOYLCHLORIDE 178
o-CHLOROBENZYLCHLORIDE 178
p-CHLOROBENZYLCHLORIDE 178
CHLOROBROMOMETHANE 178

1-Chlorobutane see Butyl Chloride Normal

CHLOROBUTANOL 178
CHLORO CRESOL 178
CHLORO-m-CRESOL 178
p-CHLORO-m-CRESOL 178
2-CHLOROCYCLOHEXANONE 178
CHLORODANE 175
1-CHLORO-2, 2-DIFLUOROPROPANE 178

1-Chlorodecane see Decyl Chloride
Chloroethane see Vinyl Chloride and Ethyl Chloride
2-Chloro-1,4-Dihydroxybenzene see Chloro Hydroquinone
Chloroethylene see Vinyl Chloride
Chlorofectant: L. Sonneborn Corp., N.Y.C., liquid disinfectant.
Chlor-O-Feeder: Proportioneers Inc., Providence, R. I., water sterilizing apparatus.

CHLOROFORM 178

Chloroformyl Chloride see Phosgene.
1-Chlorohexadecane see Cetyl Chloride

CHLOROHYDROQUINONE 179
CHLORO-IODO-OXYQUINOLINE 179

o-Chloromercuriphenol see o-Hydroxyphenyl Mercuric Chloride
Chlormetacresol see Chlorocresol
Chloromethane see Methyl Chloride

a-CHLORO NAPHTHALENE 179
o-CHLORO-p-NITRANILINE 179

2-Chlor 4-Nitroaniline see o-Chlorparanitraniline

p-CHLORO-o-NITRANILINE 179
1-CHLORO-1-NITROETHANE 179
1-CHLORO-1-NITROPROPANE 179
2-CHLORO-2-NITROPROPANE 179
p-CHLORO-o-NITROPHENOL 179

1-Chloropentane see Amyl Chloride Normal
Chloron: Ameeco Chems. Inc., N. Y. C., chlorinated solvent.
Chloropon: Kali Mfg. Co., Phila., Pa., buffer.
Chlorpanol see Propylene Chlorhydrin
Chloropentane see Amyl Chloride

o-CHLORO PHENOL 179
p-CHLORO PHENOL 179
CHLORO PHENOL BLUE 179
CHLORO PHENOL RED 179
2-CHLORO-4-PHENYLPHENOL 179
2-CHLORO-6-PHENYLPHENOL 179
6-CHLORO-2-PHENYLPHENOL 179
CHLOROPHYLL 179
CHLOROPICRIN 180
CHLOROPRENE 180
p-CHLOROPROPIOPHENE 180

Chloropropyleneglycol see Chlorohydrin and Monochlorhydrin, Alpha.
Chloropropylene Oxide see Epichlorohydrin

2-CHLOROPYRIDINE 180
CHLOROQUINOLINE 180
2-CHLOROQUINOLINE 180

Chlorsulfuric Acid see Sulfuryl Chloride

2-CHLOROTHIOPHENE 180
CHLORTHYMOL 180
CHLOROTOLUENE, see also Benzyl Chloride 180
o-CHLOROTOLUENE 180
p-CHLOROTOLUENE 180

Chlorotoluol see Benzylchloride
Chlorowax: Diamond Alkali Co., Cleveland, O., paraffin.
Chloroxymethylbenzene see Chlormetacresol

CHLORO-m-XYLENOL 180
p-CHLORO-m-XYLENOL 180

Chlorsol: E. F. Drew & Co., Inc., N. Y. C., emulsifier.
Chlor-Tox: Thompson Horticultural Chems. Corp., Los Angeles, Calif., insecticide.
Chlorylene see Trichloroethylene
Chocolatone: Florasynth Labs., Bronx, N. Y., flavor.
Choctaw: Wyandotte Chems. Corp., Wyandotte, Mich., laundry detergent.
Cholepyrrin see Bilirubin

CHOLESTEROL 180
CHOLINE COMPOUNDS 180

Cholmeth: Chemo Puro Mfg. Corp., Long Is. City, N. Y., lipotrope prep.
Chondrush see Moss Irish
Christie: General Amer. Transportation Corp., Chicago, Ill., rotary dryers.
Chromalox: Edwin L. Wiegand Co., Pitts., Pa., electric heating units.

Chromacyl: E I du Pont de Nemours & Co., Organ. Chems. Dept., Wilmington, Del., dyes.
Chromal: Martin Dennis Co., Newark, N.J., fat liquor.
Chromansl: Amer. Brake Shoe Co., Chicago Heights, Ill., castings.
Chromel: Hoskins Mfg. Co., Detroit, Mich.
CHROME see Chromite
Alum see Alum Potash Chrome
Ammonium Alum see Alum Ammonia Chrome
GREEN 180
Iron Stone see Chromite
Ore see Chromite
Tannage see Tannage One Bath
Yellow see Lead Chromate
Chrome Mortar: Laclede-Christy Co., St. Louis, Mo., cement.
Chromend: Arcos Corp., Philadelphia, Pa., electrodes.
Chromic Acid see Acid Chromic.
Chromic Anhydride see Acid Chromic
Chloride see Chromium Chloride
Fluoride see Chromium Fluoride
Oxide see Chromium Oxide
Phosphate see Chromium Phosphate
Sulfate see Chromium Sulfate
Chromindigen: General Dyestuff Corp., N.Y.C., mordant acid dye.
CHROMITE 180

CHROMIUM

CHROMIUM (the Metal) 181
ACETATE 181
Ammonium Sulfate see Alum Ammonia Chrome
BROMIDE 181
CARBONATE 181
CHLORIDE 181
FLUORIDE 181
FORMATE 181
HYDROXIDE 181
NAPHTHENATE 181
NITRATE 181
OLEATE 181
OXALATE 181
OXIDE 181
Pigments see Pigments Chromium
Plating Compounds see Electroplating Solutions; Salts Electroplating
Potassium Sulfate see Alum Potash Chrome
POWDER 181
Sesquichloride see Chromium Chloride
Sesquioxide see Chromium Oxide
STEARATE 181
SULFATE 181
Trioxide see Acid Chromic
Chromogene: Gen'l Dyestuff Corp., N.Y.C., acid dyes.
Chromol: Martin Dennis Co., Newark, N.J., fat liquor.
"Chrometex": Mathieson Chem. Corp., N.Y.C., rug cleaner.
Chromous Acetate see Chromium Acetate
Chromoxane: Gen'l Dyestuff Corp., N.Y.C., acid dyes.
CHRYSENE 182
Chrysolite: Hercules Filter Corp., Paterson, N. J., filter material.
Cibanite: Ciba Prods. Corp., Hoboken, N.J., condenser comp.
Cibanoid: Ciba Prods. Corp., Hoboken, N.J., synthetic urea plastic.
Cicoil: Brasil Oiticica, N.Y.C., oiticica oil.
Cide-X: Cidex Corp., Jersey City, N. J., germicide-fungicide.
CINCHOPHEN 182
METHYL ESTER 182
Cineole see Eucalyptol
CINNAMIC ACETATE 182
ALDEHYDE 182
BUTYRATE 182
Ether see Ethyl Cinnamate.
FORMATE 183
Iso Butyrate see Chemicals Aromatic
PROPIONATE see Chemicals Aromatic 182
Circle Star: Morningstar, Nicol, Inc., N.Y.C., tapioca flour.
Circle-L: Lebanon Steel Foundry, Lebanon, Pa., castings.
Circo-Solv: Circo Products Co., Cleveland, Ohio, degreasing solvent.
Circulene: Link Belt Company, Phila., sludge collector.
Cirine: M. W. Parsons Imports & Plymouth Org. Labs. Inc., N.Y.C., wax.
Cisbutene-dioic Anhydride see Maleic Anhydride
Cisco-Solv p/l: Cities Service Oil Co., Bartlesville, Okla., hydrate solvent.
CITRACONIC ANHYDRIDE 182
CITRAL 182
Citrene: Givaudan-Delawanna, Inc., N.Y.C., odor for soap.
Citric Acid see Acid Citric
Citrifoam: Wyandotte Chems. Corp., Wyandotte, Mich., cleaner.
Citronel B: Fritzsche Bros. Inc., N. Y. C., lemon oil.
Citron Yellow see Zinc Chromate
CITRONELLA CEYLON 183
CITRONELLAL 183
CITRONELLOL 183
Citrus Fix: Thompson Horticultural Chems. Corp., Los Angeles, Calif., fruit drop inhibitor.
CIVET, NATURAL 183
Civettone: Firmenich & Co., N. Y. C., perfume specialty.
Clarase: Takamine Lab., Clifton, N.J., diastatic enzyme.
Claremont: Claremont Pigment Dispersion Corp., Bklyn, N. Y., dispersions.
CLARIFIERS, ENAMELS, SHELLAC 635
HYDRAULIC 635
SEWAGE AND INDUSTRIAL WASTE 635
SUGAR 635
TANK TYPE 635
WATER 635
Clariflow: Hormann & Co. Inc., B'klyn, N. Y., filter pads.
Clarinols: Arnold, Hoffman & Co. Inc., Providence, R. I., combing and spinning oils.
Clarkat: Clark Equipt. Co., Battle Creek, Mich., towing tractors.
Clarktor: Clark Equipt. Co., Battle Creek, Mich., towing tractors.
e-Clase see Feldspar
CLASSIFIERS 635
LABORATORY 635
CLAYS ACTIVATED 183
BALL 183
BLEACHING 183
CALCINED 184
CHINA 184
COLLODIAL 184
CRUCIBLE 185
CRUDE POT 185
ENAMELERS' 185
FILLER 185
FIRE 185
FOUNDRY 185
HIGH ALUMINA 185
INSECTICIDAL DUSTING 185
PAPER MAKERS' 185
POTTERY-MAKERS' 185
PULVERIZED AIR FLOATED 185
REFRACTORY 186
RUBBER-MAKERS' 186
SAGGER 186
TEXTILE 186
WASHED 186
Clay-Working Oils see Oils, Clay-Working
Clean Air: Nash Engineering Co., So. Norwalk, Conn., compressors.
Clean All: Solvit Chem. Co., Inc., Madison, Wis., detergent.
CLEANER AND CLEANSER 492
BRUSH 492

CLEANERS

CLEANERS ALKALI 493
ALUMINUM 494
AIR 635
BOILER-TUBE 494
BOTTLE 635
DAIRY 494
DRAIN PIPE 495
DRY 495
FLOOR 495
FRUIT 495
GAS 635
GLASS 495
LEATHER 495
METAL 495, 635
PAINT 496
PAPER FELTS 496
PHOTOGRAPHIC FILM 496
PIPE 496
PRINTERS' TYPE 496
RUBBER 496
RUG 496
STEAM 635
STONE 496
SWIMMING POOLS 496
UPHOLSTERY 496
VACUUM 635
WALL PAPER 496
CLEANING FLUIDS 496
Cleanite: Chem. Spec. Co., Los Angeles, Calif., dry cleaner.
Cleanliner: Taylor Instrument Co., Rochester, N. Y., thermometers.
Clean-Rite: Robinson Bros. Chemicals Inc., B'klyn, N.Y., bleach.
Clean Water: Link-Belt Company, Chicago, traveling intake screens.
Clear Lacquers see Laoquers Clear
Clearsol: Penick & Ford, Ltd., Inc., N. Y. C., corn starch.
Clearteck: Penna Refining Co., Butler, Pa., tech. white oil.
Clearwash: Chemco Prod. Co. Inc., Chicago, Ill., paint flotation.
Clee-N-Ease: Nielco Chemicals Inc., Detroit, Mich., film remover.
Clenital: H. Kohnstamm & Co., N.Y.C., washing comp.
Clenopine: U.S. Sanitary Specialties Corp., Chicago, Ill., disinfectant.
Cleveland: Braden-Sutphin Ink Co., Cleveland, Ohio, printing ink.
Cliffchar: Cliffs-Dow Chem. Co., Marquette, Mich., charcoal.
Clingspray: Amer. Cyanamid Co., N. Y. C., inhibitor.
Clingtite: Houk & Co., Cleveland, O., rust preventive.
Clipper: Circo Products Co., Cleveland, Ohio, metal degreasers.
Clipper: Clark Equipt. Co., Battle Creek, Mich., fork-lift trucks.
Clipper Cleaner: Diamond Alkali Co., Cleveland, Ohio, cleanser.
Clomak: Wyandotte Chems. Corp., Wyandotte, Mich., laundry detergent.
Clorafin: Hercules Powder Co., Wilmington, Del., chlorinated paraffin.
Clorisol: U.S. Sanitary Specialties Corp., Chicago, Ill., chlorine disinfectant.
Clortex: Monarch Chem. Works Inc., Omaha, Nebr., sodium hypochlorite sols.
Close-Cupid: Goulds Pumps Inc., Seneca Falls, N. Y.
CLOTH, ACID & ALKALI RESISTING 635
CLOTH ASBESTOS 635
BOLTING 635
Cloth Filter (Cotton) see Filter Cloth (Cotton)
Cloth Filter (Metallic) see Filter Cloth (Metallic)
Cloth Filter (Rubber) see Filter Cloth (Rubber)
GLASS 635
HEAT RESISTANT 636
MILDEWPROOF 636
SYNTHETIC FIBRE 636
WATERPROOF 636
WIRE 636
CLOTHING, ACID PROOF 636
FIRE FIGHTING 636
CLUTCHES, FRICTION 636
JAW 636
PULLEY 636
Coal Dust Sprays see Sprays Coal Dust
Coal Naphtha see Benzol
COAL TREATING COMPOUNDS 496
Coalite: Atlas Pwdr. Co., Wilmington, permissible explosives.
Coal-Tar see Tar, Coal also Oils Neutral
Coal-Tar Naphtha see Naphtha Coal-Tar
Pitch see Pitch Coal Tar
Specialties see Disinfectants Coal-Tar; Cements Plastic Coal-Tar; Oils Coal-Tar; Resins Coal-Tar; Oils Road; Pitches; Tars; Solvents Coal-Tar; Coatings Tar; Dips; Thinners

COATINGS

Coating "V": Multi-Mold Products, N.Y.C., vinyl coating.
COATINGS, ACID PROOF 497
ALKALI-PROOF 497
ASPHALT 497
BOILER SETTING 497
CABLE 497
CANVAS 497
CEMENT 497
FIREPROOF 497
FLEXIBLE 497
LINOLEUM 498
LIQUID RUBBER 498
OIL-PROOF 498
PIPE (see also Coatings Asphalt) 498
PLATING RACKS 498
RUBBER 498
STEEL BARRELS AND DRUMS 498
TAR 498
WATERPROOF 498
WRINKLE 498
Cobalnate: Gilbreath Chemical Co., San Fran., Calif., paint dryer.
COBALT (the Metal) 186
ACETATE 186
Black see Cobalt Oxide
BLUE 186
CARBONATE 186
CHLORIDE 186
CHROMATE 186
Driers see Driers Cobalt
2-ETHYLHEXOATE 186
FLUORIDE 186
HYDRATE 186
IODIDE 186
LINOLEATE 187
NAPHTHENATE 187
NITRATE 187
OLEATE 187
OXIDE 187
Peroxide see Cobalt Oxide
PHOSPHATE see also Cobaltous Phosphate 187
POWDER 187
RESINATE 187
Sesquioxide see Cobalt Oxide
STEARATE 187
SULFATE 187
TALLATE 187
TUNGSTATE 187
Ultramarine see Cobalt Blue
Wolframate see Cobalt Tungstate
Cobaltous Carbonate see Cobalt Carbonate
Chloride see Cobalt Chloride
Chromate see Cobalt Chromate
Fluoride see Cobalt Fluoride
Hexanitrate see Cobalt Potassium Nitrite
Hydrate see Cobalt Hydrate
Hydroxide see Cobalt Hydrate
Linoleate see Cobalt Linoleate
Nitrate see Cobalt Nitrate
Oleate see Cobalt Oleate
Oxide see Cobalt Oxide
PHOSPHATE 187
Resinate see Cobalt Resinate
Sulfate see Cobalt Sulfate
Tungstate see Cobalt Tungstate
Cobaltous Acetate see Cobalt Acetate
Cobiax: Esso Standard Oil Co., N. Y. C., black oils.
Cobra Spray: Hockwald Chem. Co., San Francisco, Calif., insect spray.
Coccus see Cochineal
COCHINEAL 187
Cocoanut Palm Oil see Oil Cocoanut
Cocobase: E. F. Drew & Co., Inc., N. Y. C., coconut potash soap.
Cocoloid: Keico Co., N.Y.C., algin.
Coco-Nut Butter see Oil Cocoanut
Coconut Cake see Copra cake & meal
Coerulein: Zinsser & Co., Hastings-on-Hudson, N.Y., mordant dyes.
CODEINE SULFATE 187
Codoil see Oil Rosin
Codur: Mass & Waldstein Co., South Gate, Calif., syn. enamels.
COILS, BLOCK TIN 636
COOLING AND CONDENSING 636
HEATING 636
LEAD PIPE 636
Color-Tone: Tamms Industries Inc., Chicago, Ill., resin emulsion paint.
COLCHICINE SALICYLATED 188
Cold-bar: Cal-bar Paint & Varnish Co., Phila., Pa., caulking compd.
Cold Seal: Fiber Chemical Corp., Cliffwood, N.J., textile finish.
Colex: Consolidated Chemical Industries Inc., San Francisco, Calif., animal glue.
Calite: Beacon Co., Boston, Mass., rubber mold lubricant.
COLLAPSIBLE TUBE MACHINERY 636
TUBES 636
Collargol: Heyden Chem. Corp., N. Y. C., colloidal silver.
COLLARS, SHAFT 636
COLLECTORS, DUST 636
FUME 636
COLLIDINE 188
2,4,6-COLLIDINE 188
Collier: Hercules Pwdr. Co., Wilmington, dynamite.
Collier C: Hercules Powder Co., Wilmington, Del., dynamite.
COLLODION 188
Colloid Colors: McKay Chem Co., Inc., B'klyn, N.Y., glass colors.
Colloidal Clay see Clay Colloidal also Bentonite
Colloresine: Gen'l Dyestuff Corp., N.Y.C., sizing agent.
Colloxylin see Pyroxylin Solutions
Collupulin: Wallerstein Co. Inc., N. Y. C., stabilizer.
Colmonoy: Wall Colmonoy Corp., Detroit, Mich., nickel alloys.
Colmonoy Sweat-On: Wall Colmonoy Corp., Detroit, Mich., abrasion resistant.
Cologne Brown see Vandyke Brown
Cologne Earth see Van Dyke Brown
Spirits see Alcohol Ethyl
Colombo: J. S. McCormick Co., Pittsburgh, Pa., foundry facing.
Colonel Drake: Penn Refining Co., Cleveland, O., additive.
Colonial Spirits see Methanol
Colonial: Superior Prods. Co., Somerville, Mass., blue.
Colophony see Rosin Gum
Color Conditioning: E I du Pont de Nemours & Co., Fabrics & Finishes Dept., Wilmington, Del., paints.
COLORIMETERS 638
COLOR LAKES 188
COSMETIC 498
Colorex: Stauffer Chem. Co., N. Y. C., text. stripper.
Colorfixe: H. Kohnstamm & Co., Inc., N. Y. C., sour.
Color-It: Alabastine Paint Products, Chicago, Ill., coloring.
Colorless Waterproofing Agents see Waterproofing Agents Colorless
Coloroben: McCann Chemical Co., Louisville, Ky., disinfectants.
Colorich: Barnett Labs., Long Beach, Calif., carotene.
Colorodors: E. M. Laning Co., Irvington, N. J., for perfuming & coloring.

COLORS

Colorole: Warwick Chem. Co., Long Is. City, N. Y., text, dyeing assistant.
Coloromes: Felton Chemical Co., B'klyn, N.Y., perfuming agent.
COLORS AIR BRUSH 498
ALIZARINE 189
ARTISTS' 498
BUTTER AND CHEESE 499
CARAMEL 499
CARBON PAPER 499
CERAMIC 189, 499
CERAMIC RESISTANT 500
CERTIFIED 189
COSMETIC 500
DRY 189
EARTH 190
FOOD 500
GLASS 500
INK 500
INK PRINTING 501
JAPAN 501
LACQUER 501
LINOLEUM 502
LIQUID SOAPS 502
MORTAR 502
MORTAR, STUCCO 191
OIL, SOLUBLE 191
OVERGLAZE 502
PAINT SPRAY BOOTH 502
PAPER MAKERS' 191
PASTE 502
PERFUME 502
PHOTOGRAPHIC 502
PLASTIC 192, 502
RUBBER 502
RUBBER, WHITE 502
SHOW CARD 502
UNDERGLAZE 502
VARNISH 502
Color-Spark: Wyandotte Chems. Corp., Wyandotte, Mich., laundry compound.
Colorsuds: H. Kohnstamm & Co., Inc., N. Y. C., soap.
Colortone: Tamms Silica Co., Chicago, Ill., resin paint.
Colorwax: Master Builders Co., Cleveland, Ohio, floor wax.
Colosheen: Algin Corp. of America, New York, N. Y., textile finisher.
Colothar see Iron Oxide Red
Colspar-Lac: Sterling Paint & Varnish Co., Malden, Mass.
Columbia: Frederic B. Stevens Inc., Detroit, Mich., foundry parting comp.
Columbia: G. H. Voter Co., Boston, Mass., calcium chloride.
Columbian: Binney & Smith Co., N.Y.C., black pigment.
Columbian Spirits see Methanol
COLUMBIUM 192
COLUMNS, ABSORPTION 636
BUBBLE CAP 636
DISTILLING, FRACTIONATING, etc. 636
PACKED 636
Colza Oil see Oil Rapeseed
Combination: Wright-Austin Co., Detroit, Mich., steam traps.
COMBUSTION CONTROL SYSTEMS 636
TUBE 636
Comcoterg: Commonwealth Color & Chemical Co., N. Y. C., detergent.
Comfo: Mine Safety Appliances Co., Pittsburgh, Pa., respirators.
Comfortol: L. Sonneborn Inc., N.Y.C., cattle spray
Cominco: Commercial Minerals Co., San Francisco, Calif., pigments.
Common Salt see Sodium Chloride
Common-Sense: Filter Paper Co., Chicago, Ill., disc filters.
Compass Steel Cable: Goodyear Tires Rubber Co., Akron, Ohio, conveyor belt.
Compass-V-Steel: Goodyear Tires Rubber Co., Akron, Ohio, v-belt.
Compo-Bond: Ceilcote Co., Cleveland, cement.
249 Compound: Kehew Bradley Co., Boston, Mass., leather oil.
Compound 245: Advance Solvents & Chem. Corp., N. Y. C., inhibitor.
266 Compound 10-42: Kearny Mfg. Co., Kearny, N. J., lubricant.
Compound "C": Price Fire & Water Proofing Co., Poughkeepsie, N.Y., flameproofing preparation.
Compound C: Scher Bros., Clifton, N. J., kier boiling compound.
Compregnite: Borden Co., N. Y. C., impregnating solution.
Compressor Oils see Oils Compressor
COMPRESSORS, AMMONIA 636
GASES 637
PORTABLE 637
Computagram: Toledo Scale Co., Toledo, Ohio, scale.
Concamine: Continental Chemical Co., Passaic, N. J., softener.
Concental: Arnold, Hoffman & Co. Inc., Providence, R. I., finishing compds.
Concental: Hercules Pwdr. Co., Wilmington, sulfonated tallow for textiles.
Concentrated Fertilizers see Fertilizers Chemical Concentrated
Concentrates Graphite see Graphite Concentrate.
CONCENTRATORS, ALCOHOL ACID 637
Conco: Continental Chem. Co., Passaic, N. J., water repellent.
Conco Anti Fume: Continental Chemical Co., Passaic, N. J., inhibitor.
Conco Dullers: Continental Chemical Co., Passaic, N. J., text. dulling agts.

Conco L 200: Continental Chemical Co., Passaic, N. J., levelling agt.
Conco Softener #99: Continental Chemical Co., Passaic, N. J., softeners.
Concocide: Continental Chemical Co., Passaic, N.J., fungicide.
Concoset: Continental Chem. Co., Passaic, N. J., urea formaldehyde condensate.
Concosize: Continental Chem. Co., Passaic, N. J., resin emulsions.
CONCRETE SURFACE TREATMENT 503
Concretite: Amer. Resinous Chems. Corp., Peabody, Mass., concrete waterproofer.
Concrewaltum: Vita-Var Corp., Newark, N. J., floor enamel.
Condensate C: Continental Chem. Co., Passaic, N. J., syn. detergent.
CONDENSATE RETURNS SYSTEM (High Pressure) 637
CONDENSERS, BAROMETRIC 637
- COIL 637
- FRACTIONAL 637
- NITRIC ACID 637
- REFLUX 637
- STEAM 637
- SURFACE 637
- TUBULAR 637
- VAPOR 637

Condiment Flavors see Flavors Condiment
Condit: Allis-Chalmers, Milwaukee, Wisc., circuit breakers and motor starters.
Condor: Raybestos Manhattan Inc., Passaic, N. J., belting, hose.
Con-Duct: Ralph V. Rulon, Inc., Phila., Pa., acidproof flooring.
Conducta-Core: Metallurgical Prods. Co., Phila., Pa., lead anodes.
CONDUIT, ELECTRICAL 637
Pitch see Pitch Conduit
Conduloy: Brush Beryllium Co., Cleveland, Ohio, beryllium alloy.
Conestrol: Continental Chem. Co., Passaic, N. J., wetting & penetrating agt.
Confidence Brand: Southern Lacquer Co., Baltimore, Md.
Congo Copal see Gum Congo
Congogloss: Zapon Div. Atlas Powder Co., Stamford, Conn., finishers & lacquers.
Conical End: Tri-Clover Machine Co., Kenosha, Wis., flanged type fittings.
Conjulin: Woburn Chem. Corp., Kearny, N. J., fatty acid.
Conjusoy: Woburn Chem. Corp., Kearny, N. J., fatty acid.
Conkey: General Amer. Transportation Corp., Chicago, Ill., filters.
Conquinone see Quinidine-Alkaloid
Conservrade: Blaw Chemical Corp., Passaic, N.J., surface protectors.
Conserve: Hewitt Rubber Div., Buffalo, N. Y., hose.
Conset: Allis-Chalmers, Milwaukee, Wisc., controlled settling ore jigs.
Constametric: Milton Roy Co., Phila., Pa., pumps.
CONTACTORS, LIQUID-GAS 637
CONTAINERS GLASS 638
- METAL 638
- PAPER 638

Continental: F. J. Heap & Sons, Boston, Mass., writing inks.
Continuweigh: Richardson Scale Co., Clifton, N.J., continuous weigher, feeder.
Contratone: Mallinckrodt Chemical Works, St. Louis, Mo., photographic developer.
Control Lecithin: Central Soya Co., Inc., Ft. Wayne, Ind., emulsifier.
Controlled Volume: Milton Roy Co., Chestnut Hill, Pa., pumps.
CONTROL, AUTOMATIC CONCENTRATION 639
CONTROLS, ELECTRONIC 639
- FEED WATER 639
- FLOW 639
- FURNACE 639
- HUMIDITY 639
- HYDRAULIC 639
- LIQUID LEVEL 639
- PUMP 640
- REMOTE 640
- SPEED 640
- TEMPERATURE 640
- TIME CYCLE 640
- VACUUM 640

Convertit: Wallerstein Co. Inc., N. Y. C., invertase.
Conveyometer: Richardson Scale Co., Clifton, N.J., continuous feeder-weigher.
Conveyor Screens, see Screens Conveyor
CONVEYORS, APRON 640
- BELT 640
- BUCKET 640
- DRAG 640
- FLEXIBLE 640
- FLIGHT 641
- HINGE TYPE 641
- MAGNETIC 641
- OVERHEAD TRACK 641
- PNEUMATIC 641
- PORTABLE 641
- PULVERIZED MATERIAL 641
- ROLLER 641
- ROTARY TABLE 641
- ROTARY TUBULAR 641
- SCREW 641
- SLAT 641
- TRAY 641
- TROLLEY 641
- UNIVERSAL CARRIER 641
- VIBRATING 641
- WASHING 641
- WEIGHING 641

Convey-O-Weigh: Richardson Scale Co., Clifton, N.J., conveyor weigher.
Corallin see Acid Rosolic
Cooke: R. Y. Ferner Co., Inc., Boston, Mass., microscopes.
COOKERS, PRESSURE 641
- STEAM 641
- STEAM AUTOCLAVE 642

Coolant-klean: Cuno Engineering Co., Meriden, Conn.
Cooler: Koch Engineering Co., Inc., Wichita, Kansas, humidification.
Coolers see Exchangers, Heat
COOLERS, ACID 642
- AIR 642
- AIR, QUENCHING 642
- AMMONIA 642
- BRINE 642
- CARBON DIOXIDE 642
- ELECTRO VIBRATING 642
- GAS 642
- GLASS 642

COOLERS (cont'd)
- OIL 642
- ROTARY 642
- WATER 642

Cooler-Proof: Paisley Products, Inc., Chicago, Ill., bottle label glue.
COOLING TOWERS, SPRAY 642
Coolube: Warren Refg. & Chem. Co., Cleveland, Ohio, cutting oil.
Copaiba Resin see Balsam Copaiba
Copaira see Balsam Copaiba
Copal Resin see Gum Congo see also Gum Copal
Copapel: General Dyestuff Corp., N.Y.C., mildew preventive agent.
Copasco: Commercial Paste Co., Columbus, O., semi-liquid paste.
Copcel: Maas & Waldstein Co., South Gate, Calif., coating.
Coplast: Maas & Waldstein Co., Newark, N.J., resin base primer.
Coppenite: Gilbreath Chemical Co., San. Fran., Calif., wood preservative.

COPPER

COPPER (Cuprum) 192
- ACETATE 192
- ACETOARSENITE 192
- Aminosulfate see Copper Ammonium Sulfate
- AMMONIUM SULFATE 192
- Anodes see Anodes Copper
- ARSENITE 193
- Bichloride see Copper Chloride Cupric
- BROMIDE 193
- CARBONATE 193
- CARBONATE BLUE 193
- CARBONATE CUPROUS 193
- CHLORIDE CUPRIC 193
- CHLORIDE CUPROUS 193
- CHROMATE 193
- CYANIDE CUPROUS 193
- Dichloride see Copper Chloride Cupric
- Enamels see Enamels Copper
- FLUOBORATE 193
- FLUORIDE 193
- Fluosilicate see Copper Silicofluoride
- FORMATE 193
- FUNGICIDES 503
- GLUCONATE 193
- Hemioxide see Copper Oxide Red
- Hydrate see Copper Hydroxide
- HYDROXIDE 193
- Inhibitors see Inhibitors Copper
- IODIDE 193
- Lasur see Copper Carbonate
- LINOLEATE 193
- Monoxide see Copper Oxide Black
- NAPHTHENATE 194
- NITRATE 194
- OLEATE CUPRIC see also Soaps Metallic 194
- Orthoarsenite see Copper Arsenite
- OXALATE 194
- OXIDE BLACK 194
- OXIDE RED 194
- OXYCHLORIDE 194
- OXYCHLORIDE SULFATE 194
- PALMITATE 194
- 3-PHENYLSALICYLATE 194
- PHOSPHATE 194
- POWDER 194
- PROTEIN 195
- Protoxide see Copper Oxide Red
- RESINATE 195
- RICINOLEATE 195
- SHOT 195
- STEARATE 195
- Subacetate see Copper Acetate
- Subcarbonate see Copper Carbonate
- Suboxide see Copper Oxide Red
- SULFATE 195
- SULFATE BASIC 197
- SULFATE MONOHYDRATED 197
- SULFIDE 197
- SULFOCYANIDE 197
- TARTRATE 197
- Thiocyanate see Copper Sulfocyanide
- UNDECYLENATE 197

Copperas see Ferrous Sulfate
Copperate: Planetary Chemical Co., Creve Coeur, Mo., dispersion.
Copper-Hydro: Chipman Chemical Co., Inc., Bound Brook, N.J., insecticide.
Coppernate: Gilbreath Chemical Co., San Fran., Calif., wood preservative.
Copperon see Cupferron
COPPERSMITHS 642
Coppertreat: Wood Treating Chem. Co., St. Louis, Mo., wood preservative.
COPRA 197
COPRA CAKE AND MEAL 197
Copralyte: E. I. du Pont de Nemours & Co., Electrochem. Dept., Wilmington, Del., copper plating materials.
Coprene: Maas & Waldstein Co., Newark, N.J., rubber base acid.
Copro "56": Los Angeles Chem. Co., Los Angeles, Calif., fungicide.
Corallin see Acid Rosolic
Corasil: E. F. Drew & Co., Inc., N. Y. C., textile oils.
Coravol: Western Chem Co., Kansas City, Mo., steam system treatment.
Coray: Esso Standard Oil Co., N. Y. C., red engine oils.
Cordurol Base: L. Sonneborn Sons, Inc., N. Y. C., Softener and Lubricant for hard Fibres
CORE BINDERS see Binder Core
- COMPOUNDS 503
- Oils see Binders Core
- Pitch see Pitch Core
- Washes see Foundry Core Wash

Corenco: Consolidated Rendering Co., Boston, Mass.
Corex: Crosby Chems. Inc., De Ridder, La., dark resin.
Corial: Gen. Dyestuff Corp., N.Y.C., leath. dye.

Cerikal: General Dyestuff Corp., N.Y.C., wetting agent.
Ceripol: General Dyestuff Corp., N. Y. C., oil for finishing leather.
CORK (Sheets, Blocks, Granulated, etc.) 642
CORKING MACHINERY 642
CORKS, BOTTLE 642
Cork-Tex: Bond Crown & Cork Co., Wilmington, Del., cork prods.
CORN Dextrin see Dextrin Corn
SUGAR 197
SYRUP 197
"Cornelia": Benefelder Co., Inc., N.Y.C., liquid asphaltum.
Cornelowax: General Wax Refining Co., N.Y.C., syn. wax.
Cornish Clay see Clay China
Corodex: Sunnyside Oil Co., Chicago, Ill., rust remover.
Corona: Fritzsche Bros. Inc., N. Y. C., ylang ylang.
Coro-Niel: Nielco Chemicals, Detroit, Mich., alkali cleaners.
Corosil HT: E. F. Drew & Co., Inc., N. Y. C., coconut oil.
Corpolin: Heyden Chem. Corp., Aktivin Div., N. Y. C., hygroscopic agt.
Correctal: The Braden-Sutphin Ink Co., Cleveland, Ohio, printing ink compound.
Corrodine: Metropolitan Refg. Co., Inc., Long Island City, N.Y., for condensate lines.
Corrosive Sublimate see Mercuric Chloride
Corrosol: Internat'l Rustproof Corp., Cleveland, metal cleaners.
Corrucrepe: Cincinnati Industries Inc., Cincinnati, O.
Corruflex: Amer. District Steam Co., N. Tonawanda, N. Y, expansion joints.
Corrulined: Cincinnati Industries Inc., Cincinnati, O.
Cor-Ten: Carnegie-Ill. Steel Corp., Pittsburgh, Pa., steel.
Coralon: Ralph V. Rulon, Inc., Phila., Pa., acidproof coating.
Corumb Wax: T. G. Cooper & Co. Inc., Phila., Pa., syn. carnauba wax.
Corundum see Aluminum Oxide
Cosmetic Bismuth see Bismuth Oxychloride
Cosmol: Werner G. Smith Co., Cleveland, O., sperm oil.
Cosmoline see Petrolatum
Cosol: The Neville Co., Pittsburgh, Pa., high boiling solvents.
Cotonerol: General Dyestuff Corp., N.Y.C., direct dye.
COTTON Dyes see Dyes Cotton
Finishing Compounds see Finishing Compounds Cotton
FLOCK 198
LINTERS 198
SEED MEAL AND CAKE 198
Soaps see Soaps Textile
Spraying Oil see Oils Cotton Spraying
Cottonlubrics: E. F. Houghton & Co., Phila., text. finish.
Cotton-Seed see Oil Cottonseed
Cottrell: Western Precipitation Corp., Los Angeles, Calif., electrical precipitators.
COUMARIN 198
Coumarin CNC Extra: Firmenich & Co., N. Y. C., perfume material.
Coumarone Resin see Para Coumarone and Gum Coumarone
COUNTERS, ELECTRIC 642
COUNTING MACHINES 642
COUPLES, PYROMETER 642
Courmarone Resin see p-Coumarone
p-COUMARONE 198
COUPLINGS, FLEXIBLE 642
RIGID 642
SHAFT 642
Coveral: Foundry Services, N.Y.C., aluminum flux.
Coveral: General Dyestuff Corp., N. Y. C., odor masking agent.
COVERS, MANHOLE 642
Cover-Seal: Varnitor Co., Burbank, Calif., sealing material.
Cowrie Kaurie see Gum Copal
Cox Instruments: Commercial Research Labs., Inc., for testing.
Cr 36 Solution: G. Frederick Smith Chem. Co., Columbus, O., deter of chromium.
Craftex: Ever-Plastics Corp., N. Y. C., dressing compounds.
Crag: Carbide & Carbon Chems. Corp., N. Y. C., turf fungicide.
CRANES 642
CRANES, CRAWLER 642
ELECTRIC 642
GRAB BUCKET 642
HAND OPERATED 642
MAGNET 642
TRAVELING 642
TRUCKS 643
TRUCKS AND TRAILER 643
***Crataegone:** Fritzsche Bros., Inc., N.Y.C., soap perfumes.
CREAM NEUTRALIZERS 503
of Tartar see Potassium Bitartrate
Creamalt: Wallerstein Co. Inc., N. Y. C., malt & grain cone.
Creamoders: Naugatuck Aromatics, Div. of U. S. Rubber Co., N.Y.C., creams and lotions.
Creasote see Creosote Wood
Crefenol: L. Sonneborn Sons Inc., N.Y.C., disinfectant & cleaner.
Creme Gloss: Uncle Sam Chem. Co. Inc., N. Y. C., furniture polish.
Cremogene: R. F. Revson Co., N.Y.C., absorption base.
Creme-O-Wax: General Cement Mfg. Co., Rockford, Ill., furniture polish.
Creocote: Reilly Tar & Chem. Corp., Indianapolis, Ind., paint.
Creole: Webb Belting Co., Kansas City, Mo., lace leather.
Creolol: Koppers Co., Ptsbgh., coal-tar disinf.
Creosotan: Rohm & Haas Co., Inc., Phila., synth. tanstuff.
CREOSOTE CARBONATE 198
COAL TAR 198
WOOD 199
Creosotine: Geo. C. Gordon Chemical Co., Kansas City, Mo., wood preservative.
Cresanol: Whitmoyer Labs., Inc., Myerstown, Penna., disinfectant.
Crescent: Anti-Borax Compound Co. Inc., Fort Wayne, Ind., tempering compound.
Crescent: Barrett Div., Allied Chem & Dye Corp., N. Y. C., pitch.
Crescent: North American Refractories Co., Cleveland, O., fire clay brick.
Crescent: Wright-Austin Co., Detroit, Mich., tryecocks.
Crescent Stripper: Hood Chem. Co. Inc., Philadelphia, Pa., stripper, textile.
Crestite: Limestone Prods. Corp. of Amer., Newton, N. J., neutralizer.
Cresivn: Sachs Mfg Co., Pittsburgh, Pa., disinfectant.
CRESOL MIXED 199
m-CRESOL 199
m-CRESOL PURPLE 200
o-CRESOL 200
p-CRESOL 200
Cresolac: Ceresit Waterproofing Corp., Chgo., masonry.
Cresolatum: Huntington Labs., Huntington, Ind., disinfectant.
Cresolene: Barada & Page, Inc., Kansas City, Mo., shingle stain oil.
m-Cresol-Sulfonphthalein see m-Cresol Purple
o-Cresol-Sulfonphthalein see Cresol Red
Cresocetal see Creosote Carbonate
Cres-tone: W. D. Carpenter Co. Inc., Syracuse, N. Y., disinfectant.
Crest: National Soap & Chem. Co., Minneapolis, Minn., soap powders.
Cresyl see Acid Cresylic
Creta see Chalk
Crevice Fillers see Fillers Crack
Croly: Babcock & Wilcox Tube Co., Beaver F., Pa., pipe & tubing.
CRESOLPHTHALEIN 200
CRESOL RED 200
p-CRESYL ACETATE 200
Crocus: Frederic B. Stevens Inc., Detroit, Mich., buffing comp.
Crocus: see Saffron Spanish.
Crocus of Antimony see Antimony Sulfide
Crocus Martis see Ferric Hydroxide
Crocus Martis Adstringens see Iron Oxide, Red
CROTONALDEHYDE 200
Crotonic Aldehyde see Crotonaldehyde
Crown: Imperial Chem Co., Los Angeles, Calif., dry cleaning soap.
Crown: Phoenix Oil Products Corp., Newark, N.J., wool grease.
Crown Clay: Herron Bros. & Meyer, Inc., Akron, O., rubber compounding ingredients.
Crown High: The Robinson Clay Product Co., Akron, O., temp. bonding mortar.
CRUCIBLES 643
CARBON 643
CLAY 643
PLATINUM 643
PORCELAIN 643
Crucible Clay see Clay Crucible
Crude Antimony see Antimony Sulfide
Cream of Tartar see Argols
CRUDE AROMATICS 200
DRUGS 200
DRUG EXTRACTS 200
Cruiser: Pennsylvania Refining Co., Cleveland, Ohio, lubricant.
Dot Clay see Clay Crude-Pot
CRUSHERS, COAL 643
CONE 643
DISK 643
GYRATORY 643
HAMMER 643
ICE 643
IMPACT 643
JAW 643
LABORATORY 643
RING 644
ROLL 644
ROTARY 644
SAW TOOTH 644
Crushing Rolls see Rolls Crushing
Cryochem: F. J. Stokes Machine Co., Phila., Pa.
CRYOLITE, NATURAL 200
CRYOLITE SYNTHETIC 200
Cryolith see Cryolite Natural
Cryptone: N. J. Zinc Sales Co., N. Y. C., zinc sulfide pigments.
Crysalba: Monsanto Chem Co., St. Louis, tooth paste base
Crystal: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., resin.
Crystal: Capitol Printing Ink Co., Inc., Washington, D.C. prtg. & litho inks.
Crystal Carbonate see Sodium Carbonate Monohydrated
Crystal Flow: Michigan Chemical Corp., St. Louis, Mich., granulated salt.
Crystalite: Infilco, Inc., Chicago, Ill., zeolite.
Crystalline Chloral see Chloral Hydrate
Crystallized Verdigris see Copper Acetate
Crystallose: Heyden Chem. Corp., N. Y. C., sweetening agent.
CRYSTALLIZERS 644
VACUUM 644
Crystal O: Baker Castor Oil Co., N. Y. C., odorless & tasteless castor oil.
Crystal Violet see Methyl Violet
Crystamet: Cowles Chemical Co., Cleveland, O., sodium metasilicate-pentahydrate.
Crystarose: E I du Pont de Nemours & Co., Organ. Chems. Dept., Wilmington, Del., aromatic chemicals.
Crysten: Stauffer Chem. Co., N. Y. C., insoluble sulfur.
Crystic: Marblette Corp., Long Island City, N.Y., phenolic resins.
Crystol Brite: Washburn Co., Chicago, Ill., self polishing wax.
Crystolene: W. C. Hardesty Co., Inc., N. Y. C., red oil.
Crystolow: Norton Co., Worcester, Mass., silicon carbide.
Cub: Circo Products Co., Cleveland, Ohio, metal degreasers.
Cub: Link-Belt Co., Phila., portable belt conveyors and loaders.
Cuba Wood see Fustic
CUBE 201
Cube Alum see Alum Potash
Cubic Nitre see Sodium Nitrate
Cuber: Chipman Chem Co. Inc., Bound Brook, N. J., rotenone dust.
Cudahy: H. R. Laraf Co., San Fran., Calif., gland products.
CUDBEAR 201
Cumar: Barret Div., Allied Chem. & Dye Corp., N.Y.C., paracoumarone indene resin.
Cumarin see Coumarin
Cumate: R. T. Vanderbilt Co. Inc., N.Y.C., rubber accelerator.
Cumenylamine see Cumidine
CUMIDINE 201
CUMINIC ALDEHYDE 201
Cuomarone Resin see Gum Cuomarone
Canilate: Scientific Oil Cpdg. Co., Inc., Chicago, Ill., fungicide.
Cup Rex: Foundary Service Inc., N.Y.C., bronze degasser.
CUPFERRON 201
Cupric Acetate see Copper Acetate
Acetoarsenite see Copper Acetoarsenite
Ammonium Sulfate see Copper Ammonium Sulfate
Arsenic see Copper Arsenite
Borate see Copper Borate
Carbonate see Copper Carbonate
Chloride see Copper Chloride Cupric
Cyanide see Copper Cyanide Cupric
Fluoborate see Copper Fluoborate
Fluosilicate see Copper Silicofluoride

CUPRIC (cont'd)
Hydroxide see Copper Hydroxide
Nitrate see Copper Nitrate
Oxide see Copper Oxide Black
Resinate see Copper Resinate
Silicofluoride see Copper Silicofluoride
Stearate see Copper Stearate
Sulfide see Copper Sulfide
Sulfocyanide see Copper Sulfocyanide
Cuprocide: Rohm & Haas Co., Phila., Pa., fungicide.
Cuprodine: Amer. Chem. Paint Co., Ambler, Pa., copper coating chem.
Cuprofix: Sandos Chem. Wks., Inc., N. Y. C., direct dye.
Cuprum see Copper
Cupricin see Copper Cyanide
Cuprinol: Cuprinol, Inc., Boston, Mass., fungicides and preservatives
Cuprocide Yellow: Rohm & Haas Co., Phila., fungicide.
Cupro-k: Rohm & Haas Co., Phila., Pa., fungicidal spray material.
Cuproligneum: Globe Paint Co., Inc., Bklyn., N. Y., preservatives.
Cupron see Benzoinoxime, Alpha
Cuprous Chloride see Copper Chloride
Cyanide see Copper Cyanide Cuprous
Linoleate see Copper Linoleate
Oxide see Copper Oxide Red
Rhodanate see Copper Sulfocyanide
CUPS, GREASE 644
Curade: C. P. Hall Co., Akron, O., activator.
Curbay x: U. S. Industrial Chemicals, Inc., N.Y.C., dried foundry binder.
Curcuma see Turmeric
Curosalt: Croton Chem. Corp., N. Y. C., meat curing compds.
Curriers' Finishes see Finishes Leather
Carrols: Curray Oil Co., Boston, Mass., lubricating oils.
Curry see Turmeric
Currybestos: Curry Oil Co., Boston, Mass., roof coating.
CUTCH 201
Cutler: B. F. Gump Co., Chicago, Ill., dryers and coolers.
Cutmax: E. F. Houghton & Co., Phila., cutting comp.
Cutmore: Frederic B. Stevens Inc., Detroit, Mich., buffing comp.
Cutno: Greene Tweed & Co., N. Wales, Pa., packings.
Cutrilin: Amer. Cyanamid Company, N.Y.C., leather bating preparations.
Cut-Rite: Phoenix Oil Co., Cleveland, O., metal cutting compounds.
CUTTERS, ROTARY 644
CUTTING COMPOUNDS 503
Lubricants see Cutting Compounds
Oil see Cutting Compounds
CYANOACETAMIDE 201
Cyanamide see Calcium Cyanamide
Cyanbenzene see Benzonitrile
"Cyanegg": E I du Pont de Nemours & Co., Electrochemical Dept., Wilmington, Del., sodium cyanide.
Cyanguanidine see Dicyandiamid
Cyanides see individual headings such as Sodium Cyanide; Potassium Cyanide; Silver Cyanide; Copper Cyanide; Zinc Cyanide etc.
"Cyanobrite": E I du Pont de Nemours & Co., Electrochemical Dept., Wilmington, Del., mercury salt.
Cyanoflake: E I du Pont de Nemours & Co., Electrochem. Dept., Wilmington, Del., sodium cyanide.
Cyanogas: American Cyanamid Co., New York, N. Y., calcium cyanide.
Cyanogram: Du Pont Co., Electrochemical Dept., Wilmington, sodium cyanide.
Cyanol see Aniline
CYANURIC CHLORIDE 201
Cyclamal: Verona Chemical Co., Newark, N. J., aromatic chemical.
CYCLAMEN ALDEHYDE 201
Cyclator: Infilco, Inc., Chicago, Ill., waste treatment.
Cycline Oil: Monsanto Chem. Co., St. Louis, rub. softener.
Cyclocel: Attapulgus Clay Co., Phila., Pa., catalyst.
Cyclodiene: Colonial Alloys Co., Phila., Pa.
CYCLOHEXANE 201
CYCLOHEXANOL 201
ACETATE 201
CYCLOHEXANONE 201
CYCLOHEXANONE OXIME 202
Cyclohexatrien see Benzol
CYCLOHEXENE 202
CYCLOHEXYLAMINE 202
CYCLOHEXYLBROMIDE 202
CYCLOHEXYLBUTYRATE 202
CYCLOHEXYLCHLORIDE 202
O-CYCLOHEXYLPHENOL 202
P-CYCLOHEXYL PHENOL 202
CYCLOHEXYL STEARATE 202
Cyclomenth: Chemo Puro Mfg. Corp., L. I. City, N. Y., menthol subs.
Cyclone: Wright-Austin Co., Detroit, Mich., exhaust heads.
CYCLONOL 202
Cyclonox: Whittaker, Clark & Daniels Inc., N. Y. C., abrasive.
CYCLOPENTANE 202
CYCLOPENTANONE 202
CYCLOPENTENE 202
CYCLOPENTYL BROMIDE 202
Cyclopon: General Dyestuff Corp., N.Y.C., scouring agent.
CYCLOPROPANE 202
Cyclosia Base: Firmenich & Co., N. Y. C., hydroxycitronellal.
Cyclotene: Dow Chemical Co., Midland, Mich., aromatic chem.
Cygnet: Chas. W. Young & Co., Phila, Pa., soaps.
Cylanto: Esso Standard Oil Co., N. Y. C., cylinder oils.
Cylesso: Esso Standard Oil Co., N. Y. C., steam refined cylinder oils.
CYLINDERS, AMMONIA 644
CHLORINE 644
COMPRESSED GASES 644
LIQUEFIED GAS 644
PROPANE, BUTANE 644
STEEL 644
WELDED 644
Cylmar: Esso Standard Oil Co., N. Y. C., steam cylinder lubricants.
Cylotte: Esso Standard Oil Co., N. Y. C., steam refined cylinder oil.
CYMENE 202
Cymel see Cymene
Cyper: General Dyestuff Corp., N. Y. C., basic dye.
Cyrantiol: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Cystamin see Hexamethylenetetramine
CYSTEINE 202
HYDROCHLORIDE 202
CYSTINE 202
HYDROCHLORIDE 202
Cystogen see Hexamethylenetetramine

D

D66: Oilwell Chem. & Materials Co., Los Angeles, Calif.
DA: Davison Chemical Corp., Baltimore, Md., catalyst.
DB: Baker Castor Oil Co., N.Y.C., castor oil.
DB: Hammill & Gillespie Inc., N. Y. C., whiting.
D-D*: Shell Chemical Corp., N.Y.C., soil fumigant.
DBO: E. F. Houghton & Co., Phila., text. dept.
D D T (Dichloro-Diphenyl-Trichloroethane) 202
D Ebla: W. A. Wood Co., Boston, Mass., cutting oil.
D.H.S. Activator: Hercules Powder Co., Wilmington, Del., insecticide.
D.H.S. Bronze: Koppers Co. Inc., Pittsburgh, Pa., alloy.
D. I. O. P.: Ohio-Apex, Inc., Nitro, W. Va., plasticizer.
D I: Binney & Smith Co., N Y C., carbon black.
DMP: Rohm & Haas Co., Phila., Pa., phenols.
D.P.G. Salt see Diphenylguanidine
DPR: H. V. Hardman Co., Inc., Belleville, N. J., depolymerized rubber.
DR-1 & 2: National Casein Co., Chicago, Ill., urea resin glue.
D & S: Dings & Schuster Inc., N. Y. C., shellacs and resins.
D-Spers-o: Planetary Chem. Co., Creve Coeur, Mo., emulsifying agents.
DV-2: Sharples Corp., Phila., Pa., centrifuge.
D-Y 100: Davies-Young Soap Co., Dayton, O., liq. dry cleaning cpd.
D-Z: Sharples Corp., Phila., Pa., centrifuge.
Dab-It: Siomons Labs., Inc., L. I. City, N. Y., artist cement.
Da-brite: Damon Chemical Co., Alliance, O., cleaning compounds.
Dacarene: Dacar Chemical Prod. Co., Pittsburgh, Pa., water treatment.
Dacarite: Dacar Chem. Prod. Co., Pittsburgh, Pa., degreasers & solvents.
Dacarol: Dacar Chemical Products Co., Pittsburgh, Pa., fuel oil.
Dacolyte: E I du Pont de Nemours & Co., Electrochem. Dept., Wilmington, Del., addition agent.
Dactin: E I du Pont de Nemours & Co., Electrochem. Dept., Wilmington, Del., dichlorodimethyl hydantoin.
Dag Dispersions: Acheson Colloids Corp., Port Huron, Mich., colloidal graphite in spirits.
Daintex: Hercules Powder Co., Wilmington, Del., detergent.
Dairy Cleaners see Cleaners Dairy see also Alkali Industrial; Detergents; Sodas Modified
Disinfectants see Disinfectants Dairy
Dairy Fly-Foil: An-Fo Manufacturing Co., Oakland, Calif., insecticide.
Dairy-du: An-fol Mfg. Co., Oakland Calif., dairy cleaner.
Dairywhite: Arthur Harris & Co., Chicago, Ill., copper-nickel castings.
Dakem: Davison Chemical Corp., Baltimore, Md., mothproofing comp.
Dalcarine: Dalton-Cooper, Inc., N. Y. C., glycerine replacement.
Dalcite: Dalton-Cooper, Inc., N. Y. C., titanium dioxide replacement.
Dalcophen: Dalton-Cooper, Inc., N. Y. C., preservative.
Dalite: International Rust Proof Corp., Cleveland, O., glass cleaner.
Damar Resin see Gum Damar
Dammar see Gum Damar
DAMPENERS, VIBRATION 644
DAMP-PROOFING BONDS 503
Tar see Tar Damp-Proofing
Dan-dee: Twin City Shellac Co. Inc., B'klyn, N. Y., polishing wax.
Dandy: Krayer Mfg. Co., Inc., Elizabeth, N.J., cleaner.
Dapex: Davison Chemical Corp., Baltimore, Md., mothproofing comp.
Darcova: Darling Valve & Mfg. Co., Williamsport, Pa., pump cups.
Darex: Dewey and Almy Chemical Co., Cambridge, Mass., adhesive compounds.
Dariloid: Kelco Co., N. Y. C., algin.
Darmoid: Dacar Chemical Products Co., Pittsburgh, Pa., mold coating.
Daroline: Dacar Chem. Prod. Co., Pittsburgh, Pa., water softener.
Darsil: E I du Pont de Nemours & Co., Electrochem. Dept., Wilmington, Del., tellurium dioxide.
Darvan: R. T. Vanderbilt Co., N Y C., rub. dispers. agt.
Davco: Davison Chemical Corp., Baltimore, Md., fertilizers.
Dawson: United Clay Mines Corp., Trenton, N.J., airfloated dom. clay.
Daxad: Dewey and Almy Chemical Co., Cambridge, Mass., dispersing agents.
D. D. Grinder's: L. Martin Co., Inc., N. Y. C., lamp black.
De Oxide: Haviland Prods. Co., Grand Rapids, Mich., acid pickling salts.
Deadline: L. Sonneborn Sons Inc., N.Y.C., liquid disinfectant spray.
Dead Oil see Oil Creosote and Oil Dead
Debecote: The Debevoise Co., B'klyn, N.Y., metal paint.
DeBlooming Agt.: Patent Chems Inc., Paterson, N. J., oil color.
Decab: Rhodes Chem. Corp., Plainfield, N. J., cetyl dimethyl benzyl am. chloride.
DECAHYDRONAPHTHALENE 204
Decalin see Decahydronaphthalene
Decalso: Permutit Co., N. Y. C., water softener.
DECANTERS, CONTINUOUS 644
DECAMETHYLENEDIBROMIDE 204
DECAMETHYLENE GLYCOL 204
Decene see Diamylene
Deceresol: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., wetting agents.
DECHLORINATORS, WATER 644
DECOLORIZERS GLASS 503
Decolorizing Carbon see Carbon Activated
Decolite: Gen'l Dyestuff Corp., N.Y.C., stripping agent.
n-DECYL CHLORIDE 204
Ded-tox: Thompson-Hayward Chem. Co., Kansas City, Mo., DDT prods.
Ded-weed: Thompson-Hayward Chem. Co., Kansas City, Mo., 2,4-d weed killers.
Dee Tee: Circo Products Co., Cleveland, Ohio, gear cleaner.
Deep-Pan: Link-Belt Co., Chicago, apron conveyor.
Deenate: E I du Pont de Nemours & Co., Grasselli Dept., Wilmington, Del., DDT insecticide.
Deenax: Enjay Co. Inc., N. Y. C., antioxidant.
Dee-Solv: Circo Prods. Co., Cleveland, Ohio, carbon remover.
"DeeTee": Distributing & Trading Co., Inc., N. Y. C., refined waxes.
Deetone: Universal Chem. Co., Boston, Mass., insecticide.
DEFECTANTS SUGAR 503
Defender: Du Pont Co., Photo Prods. Dept., Wilmington, Del., chem. preparations.
DEFOAMERS GLUE 503
DEFOAMING AGENTS TEXTILE 503
Defrosting Solutions see Frost-Proofing Compounds

DEGASIFIERS 644
DEGRAS see also Wool Grease 204
MOELLON 205
DEGREASING COMPOUNDS 503
DEGUMMERS (Silk) 504
Degumol: L. Sonneborn Sons, N.Y.C., silk boil-off comp.
De Haen's Salt see Antimony Salt
DEHAIRING COMPOUNDS 504
DEHUMIDIFIERS 644
Dehydrating Agents
DEHYDRATORS 645
Dehydrodiceto-Benzine see Quinone
Dehydrol: Sherwin Williams Co., PCYC Div., N.Y.C., dehydrated castor oil.
"Dehydrol-O": E I du Pont de Nemours & Co., Ammonia Dept., Wilmington, Del., denaturant.
DE-ICING FLUID 504
DE-IONIZING EQUIPMENT 645
Dekalin Bicyclodecane see Decahydronaphthalene
Dekol: General Dyestuff Corp., N. Y. C., leveling agent.
Dektol: Eastman Kodak Co., Rochester, N. Y., photographic developer.
Del-Odor E. F. Houghton & Co., Phila., textile oil
Delson: Delamar-Hendrey Chemical Co., Chicago, Ill., foaming agents.
Deltaseal: Bemis Bros. Bag Co., St. Louis, Mo., bag closure.
Delsterol: Du Pont Co., Fine Chems Div., Wilmington, Del., vitamin Ds.
Deltasin: Sterwin Chems. Inc., N. Y. C., vitamin Ds.
Deltyl: Givaudan-Delawanna, Inc., N. Y. C., cosmetic raw material.
DELUSTRANTS 504
Delustrene 701: L. Sonneborn Sons Inc., N. Y. C., pigment type dulling agent.
Demal 14: The Emulsol Corp., Chicago, Ill., vitamin emulsifier.
Dem-i-Col: S. L. Abbot Co., San Fran., Calif., denatured alcohol.
DEMINERALIZING EQUIPMENT 645
DEMULSIFIERS 504
DENATURANTS ALCOHOL 205
Denatured Alcohol see Alcohol Denatured
DENITRATORS 645
Densichron: W. M. Welch Scientific Co., Chicago, Ill., densitometer.
Dental Gas see Nitrous Oxide
Deo-Base: L. Sonneborn Sons, N. Y. C., Light hydrocarbon distillate refined to complete Freedom from Kerosene odor.

DEODORANTS

Deoderant P-36: Fritzsche Bros. Inc., N. Y. C., odor neutraliser.
DEODORANTS 504
EMBALMING FLUIDS 505
GLUE 505
INK 505
LEATHER 505
PAINT 505
PAPER 505
PYROXYLIN 505
RUBBER 505
TEXTILE 506
DEODORIZERS 645
Deodorizing Carbon see Carbon, Deodorizing
Deodor-Scents: Magnus, Mabee & Reynard, Inc., N. Y. C., perfume oils.
Deo-Spray: L. Sonneborn Sons, N.Y.C., agric. spray base.
Deoxidine: Amer. Chem. Paint Co., Ambler, Pa., metal-cleaning compound.
Deoxo: Baker & Co. Inc., Newark, N. J., gas indicators and purifiers.
De-Ox-Tube: Metallurgical Prods Co., Phila., Pa., for gas-free alloys.
Deoxtubes: Foundry Services Inc., N. Y. C., alloy deoxidizers.
De-Pa-Co: Debevoise Co., B'klyn, N.Y., metal paint.
DEPHLEGMATORS 645
Depilin: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., unhairing compounds.
Deporated Tartar see Potassium Bitartrate
Derby: United Clay Mines Corp., Trenton, N.J., Eng. China clay.
Derbyshire Spar see Fluorspar
Dereka: Debevoise Co., B'klyn, N.Y., metal paint.
Derex: U. S. Industrial Chemicals, Inc., N.Y.C., solution of derris extractives in a-a-dimethyl-a-carbobutoxy-dihydro-y-pyrone.
Deridust: S. P. Penick & Co., N.Y.C., agri. insecticide for dusts.
Derispray: S. P. Penick & Co., N.Y.C., agri. insecticide for sprays.
Derma-Glo: The Standard Chemical Co., Inc., Milwaukee, Wisc., embalming fluid.
Der-Ma-Ply: Nielco Chemicals Inc., Detroit, Mich., skin protective coating.
Derma-San: Genseke Bros., Chicago, Ill., liquid soap.
Derma-San: Huntington Labs., Inc., Huntington, Ind., for the control of athletes foot.
Derma-Tone: The Standard Chemical Co., Inc., Milwaukee, Wisc., embalming fluid.
Derminol: General Dyestuff Corp., N.Y.C., plumping agent for leather.
Deror: Amer. Agric. Chem. Co., N.Y.C., farm insecticide.
DERRIS 205
Desecal: Kellte Prods. Inc., Los Angeles, Calif., tar remover.
Desert Gems: Phoenix Chem. Co., Phoenix, Ariz., turquoise.
Desert Paint: E. & F. King & Co., Boston, liqud coloring mat'l for earth surfaces.
DESICCANTS 506
DESIZING AGENTS 506
Desizo: Scher Bros., Clifton, N. J., starch enzyme.
DESKS, LABORATORY 645
Descoter-O: Wollen Chem. & Supply Co., Paterson, N. J., liq. soot remover.
DESOXYEPHEDRINE 205
De-solv-al: Stull & Co., Phila., Pa., degreaser.
Despilin: Amer. Cyanamid Co., N. Y. C., unhairing compound.
D'Este: Kaye & MacDonald, Inc., West Orange, N. J., valves, etc.
Detanol: Commonwealth Color & Chemical Co., N. Y. C., nonionic detergent.
DETECTORS, HAZARDOUS OR POISONOUS GASES 645
LEAK 645
METAL 645
SMOKE 645
Detergent 163: Draper Soap Co., Pawtucket, R. I., textile soap.
DETERGENTS see also individual headings such as Soda Ash; Sodium Metasilicate; Tri-sodium Phosphate; Soaps; Sodium Borate, etc. 506
DISH WASHING 509
DETERGENTS (cont'd)
SYNTHETIC 509
TEXTILE 510
Detersol: Standard Chem. Products, Inc., Hoboken, N. J., detergent.
Dethnel DDT: U. S. Sanitary Specialties Corp., Chicago, Ill., roach powder.
DETONATORS 511
Detox: Wyandotte Chems. Corp., Wyandotte, Mich., detergent.
De-tox: Barton Chem. Co., Chicago, Ill., cleaner.
DEUTERIUM 205
DEVELOPERS DYEING 511
PHOTOGRAPHIC 511
Devereux: Link-Belt Co., San Francisco, agitator.
Devex: Westvaco Chem. Corp., N. Y. C., DDT.
DeVitaminized: Sheffield Farms Co., Inc., Norwich, N. Y., vitamin-free casein.
DEWATERING MACHINERY 645
Dew Pointer: Illinois Testing Labs., Inc., Chicago, Ill.
Dex: H. C. Collier & Sons, Inc., Binghamton, N.Y., detergents.
Dex-O-Tex: Crossfield Products Corp., Los Angeles, Calif., rubber mastic.
DEXTRIN 205
CORN 205
POTATO 205
TAPIOCA 205
Dextrinase: Takamine Lab., Inc., Clifton, N. J., dextrin hydrolyzing enzyme.
Dextro-glucose see Dextrose Anhydrous
Dextrose see Corn sugar.
DEXTROSE Anhydrous 205
HYDRATE 205
D-Glazer: Diversey Corp., Chicago, Ill., glaze remover.
Di Hydro: Florasynth Labs., Inc., Bronx, N. Y., flavor.
Diacetic Ester see Ethyl Acetoacetate
Diacetone see Alcohol Diacetone
DIACETYL 206
Dioxime see Dimethyl-glyoxime
MONOXIME 206
DIACETYLAMINOAZOTOLUOL 206
Diafoam: Rohm & Haas Co., Phila, anti-frothing agt.
Diagen: Du Pont Co., Dyestuffs Div., Wilmington, Del., dyes.
DIALKYL PHOSPHATES 206
DIALLYL PHTHALATE 206
SUCCINATE 206
SULFIDE 206
Dialosite see Manganese Carbonate
Diamalt see Diastase
DIAMANTINE 206
Diamide Hydrate see Hydrazine Hydrate
Diamidodiethyldiphenyl see Tolidine
Diamidophenol see Diaminophenol Hydrochloride
Diamine: General Dyestuff Corp., N.Y.C., direct dye.
Diamine Sulfate see Hydrazine Sulfate
3,3'-Diamino-4,4'-dihydroxy-Arsenobenzene Dihydrochlorids see Arsphenamine
Diaminoethane see Ethylene Diamine
Diaminogen: Gen'l Dyestuff Corp., N.Y.C., direct & developed dyes.
1,6-Diaminohexane see Hexamethylene Diamine
m-DIAMINOANISOLE 206
DIAMINOPHENOL HYDROCHLORIDE 206
2,6-DIAMINO PYRIDINE 206
Diaminotoluene see Metatolylenediamine
Diaminotoluol see Metatolylenediamine
Diammonium Orthophosphate see Ammonium Phosphate Di
Di-Ammonium Phosphate see Ammonium Phosphate Di
Diamond: Charles Products Co., N.Y.C., gelatin.
Diamond: Cherry-Burrell Corp., Chicago, Ill., sanitary fittings.
Diamond: Gen'l Dyestuff Corp., N.Y.C., mordant acid dyes.
Diamond: Black Hills Chemical Co., Rapid City, S. Dakota, sanitation supplies.
Diamond: R-S Laboratories, Chicago, Ill., metal polish.
Diamond Brand: E. A. Bromund Co., N.Y.C., yellow beeswax.
Diamond Clear: James Bute Co., Houston, Texas, syn. varnish.
Diamond "H": James Huggins & Son, Malden, Mass., disinfectants.
Diamond S: Stauffer Chem. Co., San Fran., refined flour sulfur.
Diamontine: Linick Chemical Co., Chicago, Ill., for polishing metals.
Diamontine: Chem. Specialties Co., Chicago, Ill., mirror polish.
DIAMYLAMINE 206
DI-Tert-AMYL DISULFIDE 206
DIAMYL Ether see Amyl Ether
NAPHTHALENE 206
PHENOL 207
DI-Secondary-AMYL PHENOL 207
DI-Tert-AMYL PHENOL 207
DIAMYL PHOSPHATE 207
TARTRATE 207
Dianhydro Sorbitol see Sorbide
Dianil: General Dyestuff Corp., N.Y.C., direct dye.
DIANISIDINE 207
Dianol: Quaker Chem. Prods. Corp., Conshohocken, Pa., surface active agents.
Dianthine: Firmenich & Co., N. Y. C., carnation specialty.
Dianzene: Quaker Chem. Prods. Corp., Conshohocken, Pa., textile finishes.
Di-Aqua: Diamond Alkali Co., Cleveland, Ohio, wetting agent.
Diasmol: Naugatuck Chem. Div., U. S. Rubber Co., N. Y. C., aromatics.
Diaspore see Aluminum Hydroxide
Diastafor see Diastase
DIASTASE 207
Diastasum see Diastase
Diastazyme: Jacques Wolf & Co., Passaic, N. J., desizing agt.
Diatol see Diethyl Carbonate
DIATOMACEOUS EARTH 207
Diatomite: Ensinger Union Corp., Angola, N. Y., filters.
Diawhite: Dean Chemical Co., Inc., Poughkeepsie, N.Y., stain remover.
Diazanil: General Dyestuff Corp., N.Y.C., direct dye.
Diazo: General Dyestuff Corp., N.Y.C., direct dye.
p-DIAZODIETHYLANILINE 207
p-DIAZODIMETHYLANILINE ZINC CHLORIDE 207
Diazopon: General Dyestuff Corp., N.Y.C., stabilizer for naphthols.
Diazotizing Salts see Sodium Nitrite
Diazyme: Jacques Wolf & Co., N. Y. C., enzymatic product.
Dibasic Lead Acetate see Lead Acetate Basic
Dibasic Sodium Pyrophosphate see Sodium Pyrophosphate
Dibenzofurane see Diphenylene Oxide

Dibenzothioxin see Phenothioxin.
Sulfide see Benzyl Sulfide
DIBENZYL DISULFIDE 207
ETHER of HYDROQUINONE 207
SEBACATE 207
p-DIBROMBENZENE 207
DIBROMOCHLOROMETHANE 207
DIBROMODICHLOROMETHANE 207
1,10-Dibromodecane see Decamethylene Dibromide
Dibromodichlorphenolsulfonphthalein see Bromochlor Phenol Blue
o-DIBROMOETHYLBENZENE 207
DIBROMO FLUORESCEIN 207
Dibromoethane see Ethylene Bromide
Dibromomethane see Methylene, Bromide
1,2-Dibromopropane, see Propylene Dibromide.
1,3-Dibromopropane, see Trimethylene Bromide.
Dibromopropane see Propylene Dibromide
2-6 DIBROMO PYRIDINE 207
Dibrom-ortho-Cresol-Sulfonphthalein see Bromocresol Purple
DIBROMOTHYMOLSULFONPHTHALEIN 208
DIBROMOTYROSINE 208
Dibromthymolsulfonphthalein see Bromothymol Blue
Dibutanol see Alcohol Butyl Secondary
DIBUTOXY ETHYL ADIPATE 208
ETHYL PHTHALATE 208
ETHYL SEBACATE 208
n-DIBUTYLAMINE 208
DIBUTYL "CELLOSOLVE" PHTHALATE 208
DI-Tert-BUTYL-m-CRESOL 208
4,6-DI-Tert-BUTYL-m-CRESOL 208
DI-Tert-BUTYL-p-CRESOL 208
DI-Tert-BUTYL DISULFIDE 208
Dibutyl Ether see Ether Butyl, Normal
n-DIBUTYL ETHER 208
DIBUTYL MALEATE 208
DI-TERT-BUTYL PEROXIDE 209
DIBUTYL PHTHALATE 209
DIBUTYL SEBACATE 209
DIBUTYL TARTRATE 209
Dic-A-Doo: Cole & DeGraf, San Francisco, Calif., paint cleaner.
DICALCIUM BONE PHOSPHATE 209
Dicalcium Orthophosphate see Calcium Phosphate Dibasic
DI-CAPRYL ADIPATE 209
DI-CAPRYL PHTHALATE 209
DI-CAPRYL SEBACATE 209
DI-"CARBITOL" PHTHALATE 209
DI-"CELLOSOLVE" PHTHALATE 209
Dicetylamine see Di-2-Ethylhexylamine
2,4-DICHLOROBENZALDEHYDE 210
3,4-DICHLOROBENZALDEHYDE 210
DICHLORANILINE 209
p-DICHLOROANILINE 209
1.3-DIBUTYL-THIOUREA 209
Di-Chlor-Mul: G. S. Robins & Co., St. Louis, Mo., orchard insecticide.
DICHLOROBENZENE see also Ortho and Para-dichlorobenzene 210
o-DICHLOROBENZENE 210
p-DICHLOROBENZENE 211
3,3-DICHLOROBENZIDINE HYDROCHLORIDE 211
2,4-DICHLOROBENZOTRICHLORIDE 211
3,4-DICHLOROBENZOTRICHLORIDE 211
2,4-DICHLOROBENZOYL CHLORIDE 211
3,4-DICHLOROBENZOYL CHLORIDE 211
2, 4-DICHLOR BENZYL CHLORIDE 211
3, 4-DICHLOR BENZYL CHLORIDE 211
DICHLORODIFLUOROMETHANE 211
2,2' Dichlordiisopropyl Ether see Ether Dichloroisopropyl
Dichloro-Diphenyl-Trichloro ethane see D D T
Dichloroethane see Ethylene Dichloride
DICHLORETHYL FORMAL 211
DICHLORETHYLENE 211
1, 3-Dichlorogiycerol see Glycerin Dichlorohydrin
Dichloride see Hexachlorethane
1,2-DICHLORO-2-FLUOROPROPANE 212
Dichloromethane see Methylene Chloride
DICHLOROMONOFLUOROMETHANE 212
2,5-DICHLORONITROBENZENE 212
p-Dichloronitrobenzene see 2,5-Dichloronitrobenzene
1, 1-DICHLORO-1-NITROETHANE 212
1, 1-DICHLORO-1-NITROPROPANE 212
DICHLORPHENOL 212
x-Dichloro (Phenyl Ether) see Ether, Dichlorodiphenyl
DICHLOROTETRAFLUOROETHANE 212
Dichlorophenolsulfonthalein see Chloro Phenol Red
2,4-Dichlorophenoxy Acetic Acid see Acid, 2,4-Dichlorophenoxy Acetic
Dichlorophenylamine see Dichloraniline
1.2 Dichlor-Propane see Propylene Dichloride
N-Dichloro-p-Toluenesulfonamide see Chloramine T, Di-
2,4-DICHLOROTOLUENE 212
3,4-DICHLOROTOLUENE 212
Dico: Diversey Corp., Chicago, Ill., cleaner.
Dicol: Wyandotte Chems. Corp., Wyandotte, Mich., di-olefin glycol.
DICYANDIAMID 212
Dicyandiamine see Dicyandiamid
Dicyanodiamide see Dicyandiamid
DICYCLOHEXYLAMINE 212
DICYLCOHEXYLPHTHALATE 212
DICYCLOPENTADIENE 212
DIDYMIUM (Metal) 212
OXIDE 212
SALTS 212
Dieform: Bailey Meter Co., Cleveland, Ohio, compression fittings.
Dieldrin 497: Julius Hyman & Co., Denver, Colo., insecticide.
DIELECTRIC FLUIDS 511
Diesalite: Metropolitan Refg. Co., Inc., L.I. City, N.Y., water treatment.
DIETHANOLAMINE 212
DIETHOXY ETHYL PHTHALATE 212
Diethyacetal see Acetal
Diethylacetal see Acetal
Diethylaldehyde see Acetal
Diethyl Acid Pyrophosphate see Ethyl Acid Pyrophosphate
DIETHYL AMINE 212
DIETHYL AMINO ETHANOL 212
DIETHYL ANILINE 212
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N, N-DIETHYL BENZENE SULFONAMIDE 213
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DI-2-ETHYLHEXYL ADIPATE 213
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DI-2-ETHYLHEXYL PHTHALATE 213
DIETHYL KETONE 213
MALATE 213
MALONATE 213
Diethyl Oxalate see Ethyl Oxalate
N,N-Diethyl Nicotinomide see Nikethamide
O,O-Diethyl-o-p-Nitrophenyl Thiophosphate see Parathion
Diethyl-p-Nitrophenyl Thionophosphate see Parathion
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SEBACATE 213
STILBESTROL 213
SUCCINATE 213
SULFATE 213
Diethylsulphone-Diethylmethane see Tetronal
1,3-DIETHYL THIOUREA 213
Diethylenediamine see Piperazine
Diethylene Dioxide see Dioxane
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DIETHYLENE GLYCOL DIBENZENE SULFONATE 214
Diethylene Glycol Bis see Diglycol Chloroformate
DIETHYLENE GLYCOL ESTERS 214
DIETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 214
DIETHLENE GLYCOL MONOETHYL ETHER ACETATE 214
Diethylene Glycol Mono Oleate see Diglycol, Oleate
Diethylene Glycol Mono Ricinoleate see Diglycol, Ricinoleate
DIETHYLENE TRIAMINE 214
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Diflex: Diversey Corp., Chicago, Ill., cleaner.
Di-Fume: Elkay Products Co., N.Y.C., moth killer.
Digesta-Bone: Consolidated Chem. Industries Inc., San Francisco, Calif., bone meal.
Digestase Special: Malt Diastase Co., Brooklyn, N. Y., paper sizing.
DIGESTERS 645
SEWAGE 645
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CHLOROFORMATE 214
DIACETATE 214
LAURATE 214
OLEATE see also Glycol Oleate 214
RICINOLEATE 214
STEARATE 214
DIHEXYL ADIPATE 214
DIHEXYL DISULFIDE DITERT 214
DIHEXYL PHTHALATE 214
DIHEXYL SEBACATE 214
Dihydrodiketo Benzene see Quinone
Dihydrodiketoanthracene see anthraquinone.
Dihydrogen Sulfate see Acid Sulfuric
5,6-Dihydro-2,4,6-trimethyl-1,3,5-dithiazine see Thialdine
Dihydroxy-anthraquinone see Quinizarine
1;2 Dihydroxy-anthraquinone see Alizarin
Dihydroxy-Camphene see Borneol
1,10-Dihydroxydecane see Decamethylene Glycol
p'p'-Dihydroxy-diphenyl see Diphenol
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Di-2-Hydroxyethyl Sulfide see Thiodiethylene Glycol
Dihydroxy-methylamine see Diethanolamine
Dihydroxy-phenol see Phloroglucinol
Dihydroxy-phthalophenone see Phenolphthalein
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1, 3-DIIODOPROPANE 214
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Dilene: Jacques Wolf & Co., Passaic, N.J., inhibitor.
DIIODOTYROSINE 214
DIISOBUTYL AZELATE 214
DIISOBUTYL KETONE 215
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DIISOPROPYL KETONE 215
DIISOPROPYL PHENOL 215
1,3-DIISOPROPYLTHIOUREA 215
Diliene: Jacques Wolf & Co., Passaic, N.J., emulsified phenyl amine.
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Dilvex: Floridin Co., Warren, Pa., fullers earth.
Dimelone: U. S. Industrial Chems. Inc., N. Y. C., insect repellent.
2, 3-DIMETHOXY BENZALDEHYDE 215
DIMETHOXY ETHYL PHTHALATE 215
Dimethoxybenzidine see Dianisidine
Dimethoxymethane see Methylal
Dimethoxystrychnine see Brucine Alkaloid
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Benzene see Xylol
Benzidine see Tolidine
Pyridine see Lutidine
Dimethyl see Ethane
2,4-Dimethyl-3,5-Diethyl Dicarboxy Pyrolle see Pyrolle
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DIMETHYLAMINOETHYL CHLORO HYDROCHLORIDE 216
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3,3-Dimethyl Benzidine Hydrochloride see o-Tolidin Hydrochloride
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DICHLORO BENZYL ALKYL AMMONIUM CHLORIDE 216
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Ketone see Acetone
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Dimethylene Oxide see Ethylene Oxide
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6,7 Dimethyl-9-(d-l-ribityl) Isoalloxazine see Riboflavin
Dimethyl Phenols see Xylenols
2,6-Dimethylpyridine see 2,4-Lutidine
3,7-Dimethylxanthine see Theobromine
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Diol: Esso Standard Oil Co., N. Y. C., diesel engine lubricants.
Diox 7: Phillips Petroleum Co., Bartlesville, Okla., polymerization initiator.
DIOXALANE ... 218
Dioxan see 1,4 Diethylene Oxide
DIOXANE ... 218
1,4-Dioxane see Dioxane
Dioxime see Dimethylglyoxime
Dioxy: Preston T. Rhodes, Phila., Pa., chemicals.
2:6-Dioxypurine see Xanthine
Dioxytriphenycarbinol see Phenolphthalein
Dioxytriphenylphthalide see Phenolphthalein
Dipensol: Hercules Powder Co., Wilmington, Del., solvent.
Dipentaerythrite see Dipentaerythritol
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Dipentanol see Alcohol Amyl Secondary
Dipentels: Heyden Chem. Corp., N. Y. C., dipentalrythritol.
Dipenten Glycol see Terpen Hydrate
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Diphenylketone see Benzophenone
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DIPHENYLENE OXIDE ... 219
a-b-Diphenylthiourea see Thiocarbanilide.
Dipoline: Dipoline Mfg. Co., Inc., B'klyn, N.Y., sealing lacquers.
Dippel see Oil Bone
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STAINLESS STEEL ... 646
Dipping Acid see Acid Sulfuric
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Methane see Heptane
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GLYCOL MONOSTEARATE ... 220
GLYCOL PHENYL ETHER ... 220
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Dirotein: Sherman Laboratories, Detroit, Mich., amino acids.
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Dip Strip: Amer. Resinous Chem. Corp., Peabody, Mass., temp. protective coating.
Dipwite: Special Chemicals Corp., N.Y.C., tin immersion dip.
Dipwrap: Paisley Products, Inc., Chicago, Ill., ethyl cellulose comp.
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Diquinoxyldioxime see Dinitroresorcinol
Direct fast: Peerless Color Co., Inc., Plainfield, N.J., textile dyes.
DISCHARGE AGENTS TEXTILE ... 511
Discharge Lake R see Paranitraniline Red
Discoids: Amer. Cyanamid Co., N. Y. C., fumigants.
Discolite: Royce Chem. Co., Carlton Hill, N.J., sodium sulphoxylate formaldehyde.
Disc-Pak: Alsop Engr. Corp., Millidale, Conn., filters.
DISCS, ASBESTOS ... 646
CORK (Bottle Cap) ... 646
Dish-a-du: An-fo Mfg. Co., Oakland, Calif., dish-washing compd.
Dish-Aseptic: Ferm-Aseptic Corp., Mamaroneck, N.Y., germicide.
Dishmaster: Industrial Chem. Prods. Co., Phila., Pa., mech. dishwashing comp.
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DISINFECTANTS
DISINFECTANTS COAL TAR ... 511
DAIRY ... 512
FRAGRANTS ... 512
HOUSEHOLD ... 512
HYPOCHLORITE ... 512
INDUSTRIAL ... 512
PINE OIL ... 512
POULTRY ... 512
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Disinfectone: W. D. Carpenter Co. Inc., Syracuse, N. Y., disinfectant.
Disodium Dihydrogen Pyrophosphate see Sodium Acid Pyro Phosphate
DISODIUM ETHYLENEDIAMINE TETRACETATE ... 220
Disodium Methyl Arsenate see Arrhenal
Disodium Monomethylarsenate see Sodium Methylarsenate.
Disodium Orthophosphate see Sodium Phosphate Disodium
Phosphate see Sodium Phosphate Disodium
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Dispersaid: Binney & Smith Co., N.Y.C., dispers. agt.
Dispersall: Royce Chem. Co., Carlton Hill, N. J., ethylene oxide condensate.
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PIGMENT ... 514
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Dispersite: Naugatuck Chem. Div. U. S. Rubber Co., N. Y. C., water dispersions.
DISSOLVERS ... 646
Distillates see Solvents
DISTILLATION EQUIPMENT ... 646
Distoline: Woburn Chem. Corp., Kearny, N. J., kier assistants.
Dithane: Rohm & Haas Co., Phila., Pa., synthetic organic fungicide
DITHIOCARBAMATES ... 220
Di-o-TOLYLGUANIDINE ... 220
Dithymol Diiodide see Thymol Iodide
Dittlinger: U. S. Gypsum Co., Chgo., lump lime.
Diuretic Salts see Potassium Acetate
Diuretin see Theobromine Sodium Salicylate
Diveo: Division Lead Co., Chicago, Ill., solder and soldering fluxes.
Diversipipe: Goodyear Tires Rubber Co., Akron, Ohio, rubber pipe.
Diversol: The Diversey Corp., Chicago, Ill., disinfectant.
DIVI DIVI ... 220
Divinyl see Butadiene
DIVINYL BENZENE ... 220
Divobrite: The Diversey Corp., Chicago, Ill., bottle washing compound.
Divolume: The Diversey Corp., Chicago, Ill., aluminum cleaner.
Divoluxe: Diversey Corp., Chicago, Ill., cleaners.
Dixie Brand: National Solvent Corp., Cleveland, O., gum turpentine.
Dix-O-Pine: Dixie Disinfecting Co., Dallas, Texas, pine deodorant.
Dix-O-Shine: Dixie Disinfecting Co., Dallas, Texas, floor soap.
Dix-O-Thex: Dixie Disinfecting Co., Dallas, Texas, insecticide.
Dix-O-Wax: Dixie Disinfecting Co., Dallas, Texas, floor wax.
Dixie: J. C. Drouillard Co., Cleveland, Ohio, wood rosin.
Dixie 2: R. T. Vanderbilt Co., N.Y.C., rub. makers' clay.
Dixie 5: United Carbon Co., Charleston, W. Va., carbon black.
Dixiedensed: United Carbon Co., Charleston, W. Va., dustless.
Dixie Junior: R. T. Vanderbilt Co., N.Y.C., al. silicate.
Dodecanoyl Peroxide see Lauroyl Peroxide
Dodecyl Bromide see Lauryl Bromide
Dixonac: Joseph Dixon Crucible Co., Jersey City, N. J., graphite paste.
D-Luxe: Diversey Corp., Chicago, Ill., cleaner.
DN-Dry Mix: Dow Chem. Co., Midland, Mich., agric. chemicals.
DODECYL DISULFIDE DI, Tert ... 220
DODECYL IODIDE ... 220
DODECYL MERCAPTAN ... 220
Tertiary-DODECYL MERCAPTAN ... 220
Dodge System: Link-Belt Co., Phila., coal storage.
Dolan's: Wilbert Prods. Co. Inc., N. Y. C., flavors & extracts.
Dolco: V. X. Dolan & Co., Inc., Chicago, Ill., wood filler.
DOLOMITE ... 220
Dolomol see Magnesium Stearate
DOORS, ROLLING ... 646
Door-Ease: American Grease Stick Company, Muskegon, Mich., lubricant.
DOPES AIRPLANE ... 514
LACQUER ... 514
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Nitrocellulose see Dopes Lacquer
Dopp: Buffovak Equipt. Div., Buffalo, N. Y., chem. apparatus.
Dorex: W. R. Connor Engring. Corp., N. Y. C., air recovery equipt.
Dorrco: Dorr Co., Inc., Stamford, Conn., equipment.
"Dorreo": Oliver United Filter Inc., N.Y.C., vacuum filter.
Dortan: Esso Standard Oil Co., N. Y. C., sulfurized cutting oils.
Double Salt see p-Diazodimethylaniline Zinc Chloride
Double-Flow Tower: The Marley Co., Inc., Kansas City, Kansas, large-capacity cooling tower.
Doubleton: Allis-Chalmers, Milwaukee, Wisc., multi-stage pumps.
Douglas: Penick & Ford, Ltd., Inc., N. Y. C., corn starch.
Dowanols: Dow Chemical Co., Midland, Mich., glycol ethers.
Dowax: Dow Chem. Co., Midland, Mich., agric. chemicals.
Dowclene: Dow Chemical Co., Midland, Mich., syn. solvent.
Dowflake: Dow Chemical Co., Midland, Mich., calcium chloride.
Dowfume: Dow Chem. Co., Midland, Mich., agric. chemicals.

Dowicides: Dow Chemical Co., Midland, Mich., fungicides.
Dowklor: Dow Chem., Co., Midland, Mich., chlordane formulations.
Dowmetal: Dow Chemical Co., Midland, Mich., magnesium metal alloys.
Dowspray: Dow Chem. Co., Midland, Mich., agric. chemical.
Dowtherm: Dow Chemical Co., Midland, Mich., heat transfer medium.
Doxite: Carlton Chem. Co., Inc., N. Y. C., car wash.
Dryl: Planetary Chemical Co., Cree Coeur, Mo., DDT concentrate.
Dragon: Lawrence Portland Cement Co., N. Y. C., cement.
Dragonic Acid see Acid Anisic
DRAGON'S BLOOD 220
Drainkleen: Metropolitan Refg. Co., Inc., L.I. City, N.Y., solvent.
Drascon: Penna Refining Co., Butler, Pa., white mineral oil.
Drano: Drackett Co., Cincinnati, O., drain opener.
Drapex: Argus Chemical Lab., Inc., Brooklyn, N. Y., plasticizers.
Drapolein: Draper Soap Co., Pawtucket, R. I., wool scouring soap.
Drasyn: Draper Soap Co., Pawtucket, R. I., textile soap.
Draver: R. F. Gump Co., Chicago, Ill., feeders.
Draw-Black: Park Chemical Co., Detroit, Mich., salt bath.
Drawclean: Murphy's Oil Soap Co., Cleveland, Ohio, drawing comps.
Drawcool: Murphy's Oil Soap Co., Cleveland, Ohio, drawing comps.
Drawcool: Phoenix Oil Co., Cleveland, O., metal drawing compounds.
DRAWING COMPOUNDS, WIRE 514
Soaps see Soaps Drawing
Drawite: Case Hardening Service Co., Cleveland, tempering salt bath.
Drax: S. C. Johnson & Son Inc., Racine, Wis., fabric finisher.
Drench: Arnold, Hoffman & Co. Inc., Providence, R. I., fire-fighting specialty. 1366
Drench: National Foam Systems Inc., Philadelphia, Pa., wetting agent.
Dresinates: Hercules Pwdr. Co., Wilmington, rosin soap.
Dresinol: Hercules Powder Co., Wilmington, Del., rosin emulsion.
DRESSINGS, BELT 514
LEATHER 514
Drex-Foam: Detrex Corp., Detroit, Michigan, syn. detergent.
Drex-Kleen: Detrex Corporation, Detroit, Mich., dry cleaning solvents.
Dri-Cooler: Marley Co. Inc., Kansas City, Kansas, cooling equipt.
Dricold: Kelco Co., N.Y.C., algin.
Dried Berries see Crude Drugs
Blood see Blood Dried
DRIERS COBALT 514
NAPHTHENATE 515
PAINT AND VARNISH 515
PRINTING INK 515
Dri-Film: Chem. Dept., General Electric Co., Pittsfield, Mass., silicone.
Drigel: Colloids Inc., Newark, N. J., tech gelatine.
DRILLING COMPOUNDS (Metals) 515
MUDS OIL-WELL 515
DRILLS 646
Drillyfe: Bee Chem. Co., Chicago, Ill., drilling oil.
Driocel: Attapulgus Clay Co., Phila., Pa., desiccant.
Driox: The Linde Air Prods. Co., N. Y. C., oxygen and nitrogen.
Dri Tex: Wayne Chemical Products Co., Detroit, Mich., waterproofing agent.
Drip Oil see Oils Drip
Dripless Oil: Amer. Grease Stick Co., Muskegon, Mich., penetrating oil.
"Drissal": Milwaukee Chemical Co., Milwaukee, Wis., floor seal.
Drixize: Colloids Inc., Newark, N. J., textile size.
Drixize: Eaton Chem. & Dyestuff Co., Detroit, Mich., sizing.
Dri-tite: Bemis Bro. Bag Co., St. Louis, Mo., tarpaulins.
Dri-Tri: A. R. Maas Chemical Co., South Gate, Calif., anhyd. trisodium phosphate.
DRIVES, AGITATOR 646
CHAIN 646
ELECTROFLUID 646
GEAR 646
V-BELT 646
VARIABLE SPEED 646
Driving Oils for Tanners see Oils Driving Tanning
"Dri-wax": Milwaukee Chemical Co., Milwaukee, Wis., floor wax.
Drix: Food Materials Corp., Chicago, Ill., dry flavors.
DROP BLACK 220
Drucal: E. F. Drew & Co., Inc., N. Y. C., syn. fatty ester.
Drucamine: E. F. Drew & Co., Inc., N. Y. C., cationic softener.
Drucanol: E. F. Drew & Co., Inc., N. Y. C., sulfonated castor oil.
Drug Extraction Solvents see Solvents Drug Extracting
Druicide: E. F. Drew & Co., Inc., N. Y. C., germicides.
Druid: Esso Standard Oil Co., N. Y. C., journal oils.
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DRUMS, AGITATOR 646
ALLOY 646
FIBRE 646
LEAD LINED 646
MAGNETIC 646
NICKEL 646
PROCESSING 646
REMOVABLE HEAD 647
RUBBER 647
RUBBER LINED 647
STAINLESS STEEL 647
STEEL 647
VACUUM 647
Drumtite: Multi Metal Wire Cloth Co., Inc., N.Y.C., metal bound screens.
Druray: E. F. Drew & Co., Inc., N. Y. C., coconut oil.
Dru-Tergent: E. F. Drew & Co., Inc., N. Y. C., dairy detergents.
Dry Brite: Riverside Chem. Co., Inc., No. Tonawanda, N. Y., liquid wax.
DRY CLEANING COMPOUNDS 515
Dry Ice see Carbon Dioxide
Dry-Pack: Hartman-Leddon Co., Phila., Pa., reagents.
Dryall: Industrial Lining Engrs. Inc., Pittsburgh, Pa., tallate driers.
DRYERS, ATMOSPHERIC 647
BELT 647
CENTRIFUGAL 647
COMPARTMENT 648
CONCENTRATE 648
CONTINUOUS 648
DIRECT FIRED 648
DRUM (Rotary, Vacuum) 648
ELECTRIC 648
ELECTRIC VIBRATING 648
FREEZE 648
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REVOLVING STEAM TUBE AND LIFTER TYPE 648
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TEXTILE 649
TRAY 649
TUNNEL 649
VACUUM 649
VACUUM PAN 649
VIBRATING CONVEYOR (Electro-Magnetic) 649
DRYING SYSTEMS, FLASH 649
Drymet: Cowles Chemical Co., Cleveland, O., sodium metasilicate anhyd.
Dry-O-Nite: Sherwin-Williams Co., Cleveland, paint drier.
Dryorth: Cowles Chemical Co., Cleveland, O., sodium orthosilicate.
Dry-O-Pell: L. Sonneborn Sons, Inc., N.Y.C., water-repellent emulsion.
Dry-Pyrocide: McLaughlin, Gormley King Co., Minneapolis, Minn., insecticide bases.
Dryseq: Cowles Chemical Co., Cleveland, O., sodium sesquisilicate.
Drytex: Royce Chem. Co., Carlton Hill, N. J., water-repellent.
D-Thane-8-Excess: P. R. Dreyer Inc., N.Y.C., odors for insecticides.
Du Bar: V. X. Dolan & Co., Inc., Chicago, Ill., wood bleach.
Dualfuel: Nordberg Mfg. Co., Milwaukee, Wis., diesel engines.
Dual: Amer. Dist. Steam Co., N. Tonawanda, N. Y., steam traps.
Du-All: Chemical Mfg. Sales Co., Chicago, Ill., binder.
Dual Dust: Chipman Chemical Co., Inc., Bound Brook, N.J., insecticide & fungicide.
Dual Screen: Prater Pulverizer Co., Chicago, Ill., pulverizer.
Dual Spray: Chipman Chemical Co., Inc., Bound Brook, N.J., insecticide & fungicide.
Du-all: Chem. Engring. Sales Co., Chicago, Ill., plastic material.
Duart: Maas & Waldstein Co., Newark, N.J., wrinkle enamels.
Duboth: Metropolitan Refg. Co., Inc., L. I. City, N.Y., water treatment.
Dubrovin: W. M. Welch Scientific Co., Chicago, Ill., vacuum gauges.
"Ducase": E I du Pont de Nemours & Co., Electrochemical Dept., Wilmington, Del., HCN polymer.
Duclean: Du Pont Co., Grasselli Chem. Div., Wilmington, inhibited sulfuric muriatic acid.
Ductatherm: Mercoid Corp., Chicago, Ill., control.
DUCTS 649
Ductyl: Linick Chem. Co., Chicago, Ill., plasticizer.
Dud-Flex: Laclede-Christy Co., St. Louis, Mo., cement.
Dulac: Maas & Waldstein Co., Newark, N.J., lacquer finishes.
DULCIN 220
Dullatones: Onyx Oil & Chem Co., Jersey City, N. J., text. dullers.
Dullit: General Dyestuff Corp., N.Y.C., textile delustrant.
DUMPERS, CAR 649
Dunging Salt see Sodium Silicate.
Dunnblast: Thomas W. Dunn Co., N.Y.C., sand blast composition.
Dunnflex: Thomas W Dunn Co., N.Y.C., glues & coatings.
Dunngel: Thomas W. Dunn Co., N.Y.C., gelatine.
Dunnglu: Thomas W. Dunn Co., N.Y.C., glues.
Dunnit: Thomas W. Dunn Co., N.Y.C., paper coating binder.
Dunnalize: Thomas W. Dunn Co., N.Y.C., gelatines.
Dunnlite: Thomas W. Dunn Co., N.Y.C., dehydrated flexibilized glue.
Duobel: DuPont Co., Explosives Dept., Wilmington, Del., explosives.
Duo-Copper: Miller Chem. & Fert. Corp., Baltimore, Md., tri-basic copper.
Duofol: Hart Prods. Corp., N. Y. C., text. penetrant.
Duolite: Chem. Process Co., Redwood City, Calif., resins.
Duolite: Pittsburgh Plate Glass Co., Pittsburgh, Pa., safety sheet.
Du-ment: Fritzsche Bros. Inc., N. Y. C., aromatic deodorant.
Duo-Seal: W. M. Welch Scientific Co., Chicago, Ill., vacuum pumps.
Duotal see Guaiacol Carbonate
Duotrol: Automatic Control Co., St. Paul, Minn.
Duplate: Pittsburgh Plate Glass Co., Pittsburgh, Pa., safety plate glass.
Duplex: The Cambridge Wire Cloth Co., Cambridge, Md., wire belting.
Duplex Deluxe: Proportioneers, Inc., Providence, R. I., chem-o-feeder.
Duplex Pitch: Dehls & Stein, Inc., Newark, N. J., brewers' pitch.
Durabel: Perolin Co., Inc., N.Y.C., tank lining.
Dura-Black: Heatbath Corp., Springfield, Mass., process for blackening copper and brass.
Dura-Built: Precision Scientific Co., Chicago, laboratory and medical autoclaves.
Dura-Craft: Lowe Bros. Co., Dayton, O., finishes.
Duraflex: Co-Operative Industries, Inc., Chester, N. J., hose and tubing.
Duragarde: Pyrene Mfg. Co., Newark, N. J., fire extinguisher.
Duraglas: Owens-Illinois Glass Co., Toledo, O., glass containers.
Duraglaze: Chicago Sanitary Prods. Co., Chicago, Ill., waxes.
Duraklad: Wm. W. Stanley Co., Inc., N. Y. C., filter cloth.
Dura-Lee: M. O. Grove & Co., San Fran, Calif., polyethylene tubes.
Duralon: U. S. Stoneware Co., N. Y. C., resins.
Duranite: Atlas Powder Co., Stamford, Conn., baking enamel.
Duraplex: Rohm & Haas Co., Phila., Pa., alkyd resins.
Dura-Stix: Keystone refractories Co., N.Y.C., cement.
Durawax: General Wax Refining Co., N.Y.C., synthetic wax.
Durco: Duriron Co., Dayton, O.
Durelasto: Industrial Finishes Dept., Atlas Powder Co., Stamford, Conn., finishes and lacquers.
Duresco see Lithopone
Durheat: Maas & Waldstein Co., Newark, N.J., heat resistant enamels.
Durichlor: Duriron Co., Inc., Dayton, O., high silicon iron.
Duridine: Amer. Chem. Paint Co., Ambler, Pa., phosphate-coating chem.
Durimet: Duriron Co. Inc., Dayton, Ohio, stainless steel.
Durisite: U. S. Stoneware Co., N. Y. C., cements.
Durite: The Borden Co., Chemical Div., N.Y.C., molding powder.
Dur-Lana: Warwick Chem. Co. Div., Warwick, R. I., emulsion resin.
Duro: Lunkenheimer Co., Cincinnati, O., blow-off valve.
Duro XXX: Electro-Chemical Supply & Engineering Co., Emmaus, Pa., cement.
Duro-bond: Electro-Chemical Supply & Eng. Co., Emmaus, Pa., coating.
Durobrite: E I du Pont de Nemours & Co., Electrochem. Dept., Wilmington, Del., zinc anodes.
Durocote: O'Neil Duro Co., Milwaukee, Wis., enamel.
Durocrete: Amer. Fluresit Co., Cincinnati, O., repairs concrete floors.
Durofix F.B.: Fritzsche Bros., N.Y.C., resinous fixative.
Duro-kote: Electro-Chemical Supply & Eng. Co., Emmaus, Pa., paints & coatings.
Durol: Eastman Kodak Co., Rochester, N. Y., photographic developer.
Durol: Nat'l. Aniline & Chem Co. N Y C., acid dyes
Duro-line: Electro-Chemical Supply & Eng. Co., Emmaus, Pa., lining.
Durotize Bernotize: Bernard Color & Chem. Corp., N.Y.C.
Duromit: Amer. Fluresit Co., Cincinnati, O., floor wearing surface.
Duron: Dura Chemical Co., N. Y. C., petroleum wax.

Duron: Electro-Chemical Supply & Eng. Co., Emmaus, Pa., cement.
Duro-prene: Electro-Chemical Supply & Eng. Co., Emmaus, Pa., coatings.
Duro-Seal: Electro-Chemical Supply & Eng. Co., Emmaus, Pa., joint.
Duroxon: Dura Chemical Co., N. Y. C., petroleum wax.
Durplex Sleeve: Amer. Dist. Steam Co., N. Tonawanda, N. Y., expansion joints.
Durulon: Ralph V. Rulon, Inc., Phila., Pa., acidproof coatings.
Durvin: Maas & Waldstein Co., Newark, N.J., vinyl base enamels.
Dust-A-lay: Amer. Fluresit Co., Cincinnati, O., dustproofs cement floors.
DUST COLLECTORS 649
DUST CONTROL SYSTEMS CENTRIFUGAL 649
DUST LAYERS 515
Dustfoe: Mine Safety Appliances Co., Pittsburgh, Pa., respirators.
DUSTING POWDERS AGRICULTURAL 516
POULTRY 516
Dustmaster: Michigan Chemical Corp., St. Louis, Mich., calcium magnesium chloride.
Dustox: Agkem Inc., Quincy, Ill., cattle grub dust.
Dust-Proof: Riverside Chem. Co., Inc., No. Tonawanda, N. Y., sweeping comp.
Dustube: Amer. Wheelabrator & Equipt. Corp., Mishawaka, Ind., dust collectors.
Dutch Boy: National Lead Co., N. Y. C., paint.
Dutch Boy: Sunnyside Oil Co., Chicago, Ill., white lead.
Dutch Fumigant: Whitmoyer Laboratories Inc., Myerstown, Pa., fumigant.
Duvall: Williams Chemical Corp., of Miami, Miami, Fla., citrus fruit spray.
Dux: Du Pont Co., Finishes Div., Wilmington, Del., primer.
Dux-Bak: Commercial Paste Co., Columbus, O., linoleum cements.
Duxseal: Johns-Manville Corp., N.Y.C., plastic seal. comp.
Dvolite: Chemical Process Co., Redwood City, Calif., resins.
Dyal: Sherwin Williams Co., PCYC Div., N. Y. C., alkyd resins.
Dybrite: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., dyes.
Dycoats: Foundry Services, Inc., N. Y. C., coatings.
Dye Solvents see **Solvents Dye**
Dyer's Saffron see **Saffron American**
DYES
ACETATE 516
ACID 221
ANILINE 221
ANTHRAQUINONE 222
AZO 222
BASIC 222
CHROME 222
COTTON 516
DIRECT 222
FUR 517
GASOLINE 517
HAT 517
HOSIERY 517
LACQUER 517
LEATHER 518
MIXED FIBRES COTTON AND RAYON 518
MIXED FIBRES SILK AND RAYON 518
NATURAL 222
NYLON 518
PAPER 518
PETROLEUM 519
RAYON 519
RESIN 519
RUBBER 519
SHOE 519
SILK 519
Soap see Colors Liquid Soaps; Soaps
SPECK 520
SPIRIT SOLUBLE 222
STRAW 520
SULFUR 222
UNION GOODS (Cotton and Wool) 520
VAT 222
WOOL 520
Dyhydrodiketo-anthracene see **Anthraquinone**
Dykast: Maas & Waldstein Co., Newark, N.J., enamels.
Dymal: Sherwin Williams Co., PCYC Div., N. Y. C., malaic resins.
Dyna-Brite: Herbert Chem. Co., Cincinnati, O, cleanser.
Dynacide: Wm. M. Stieh & Co., Inc., N. Y. C., phenyl mercury acetate.
Dyna-Clad: Merchants Chem. Co., Inc., N. Y. C., coating.
Dynacione: W. W. Sly Mfg. Co., Cleveland, O., dust collectors.
Dyna-Flex: Merchants Chem. Co., Inc., N. Y. C., strip coating.
Dynalog: Foxboro Co., Foxboro, Mass., electronic instruments.
Dynamaster: Bristol Co., Waterbury, Conn., thermometer.
DYNAMITE 520
DYNAMOS 649
Dyna-Sprex: The Dubois Co., Cincinnati, O., tank cleaner.
Dynatherm: Bethlehem Fdry. & Mach. Co., Bethlehem, Pa., heating systems.
Dynatherm: Foxboro Co., Foxboro, Mass., electronic instruments.
Dynesco: Merchants Chem. Co., Inc., N. Y. C., coating acid.
Dynesol: Amalgamated Chemical Corp., Philadelphia, Pa., wetting agents.
Dyna: Genaeke Bros., Chicago, Ill., detergent.
Dyocide: Miller Chemical Co., Omaha, Nebr., DDT.
Dyohex: Miller Chemical Co., Omaha, Nebr., benzene hexachloride.
Dyoklor: Miller Chemical Co., Omaha, Nebr., chlordane.
Dyphene: Sherwin Williams Co., PCYC Div., N. Y. C., phenolic resins.
Dyphenite: Sherwin Williams Co., PCYC Div., N. Y. C., mod. phenolic resin.
D-Zolvalt: Crescent Chemical Corp., Perth Amboy, N.J., water wash.

E

E: E. F. Drew & Co., Inc., N. Y. C., detergent
E & D: Eaton-Dikeman Co., Mt. Holly Springs, Pa., filter paper.
E.A.: com'l term for ethylidene aniline. rub accel
E-A-K: Tennessee Eastman Corp., Kingsport, Tenn., photo. developers, rub. compounding mat'ls
E. B. Brand: E. A. Bromound Co., N.Y.C., yellow beeswax.
E.B.G.: Niagara Alkali Co., N.Y.C., chlorine.
EPHCUT: E. F. Houghton & Co., Phila., cutting comp.
"EM": Electro Metallurgical Co., N. Y. C., briquetted ferro-alloys.
EFKO: E. & F. King & Co., Boston, paints.
E.K.: Binney & Smith Co., N.Y.C., carbon black.
E-Z: Anti-Borax Compound Co. Inc., Fort Wayne, Ind., welding compound.
E-Z: W. D. Carpenter Co., Inc., Syracuse, N.Y., floor wax.
E-Z: Hood Chem. Co. Inc., Philadelphia, Pa., starch, laundry.
E-Z Patch: Sullivan Co., Memphis, Tenn., repairing concrete.
Eagle Germantown: L. Martin Co., Inc., N. Y. C., lamp black.
"Eagle Thistle": Mathieson Chem. Corp., N.Y.C., heavy chemicals.
Earth Colors see **Colors Earth**
Flax see Asbestos
Shellac see Gum Accroides
Wax see Wax Ceresin
Earth-Nut Oil see **Oil Peanut**
Eastone: Tennessee Eastman Corp., Kingsport, Tenn., acetate dyestuffs.
Easy Cleaner: J. S. McCormick Co., Pittsburgh, Pa., core comp.
Easy-flo: Handy-Harmon, N.Y.C., silver brazing alloy.
Easy On: Empire Chemical Prod. Co., Newark, N. J., floor wax.
Easy-Ride: Filter Paper Co., Chicago, Ill., conveyors.
Easy Sander: V.E.P. Co., Detroit, Mich., primer-surfacer.
Eau de Labarraque see **Sodium, Hypochlorite**
Eau de Javelle see **Sodium, Hypochlorite**
Ebenol: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Ebonite: Strohmeyer & Arpe Co., N. Y. C., montan pitch.
Ebonol: Enthone Inc., New Haven, Conn., metal blackening salts.
Ebony Black see **Carbon Black**
Ebrok: Richardson Co., Melrose Park, Ill., battery containers.
Ecco: Emeryville Chem. Co., Emeryville, Calif., sodium silicates.
Ecco: English China Clay Sales Co., N.Y.C., clays.
Ecco Colorflex: Eaton Chemical & Dyestuff Co., Detroit, Mich., leather finisher.
Ecco Dyepen: Eaton Chemical & Dyestuff Co., Detroit, Mich., dye penetrant.
Eccodur: Eaton Chemical & Dyestuff Co., Detroit, Mich., waterproofing textiles.
Eclipse: Frick Co., Waynesboro, Pa., compressors.
Eclipse: Gregy Co., N.Y.C., sulfur dyes
Econolite: Gibbs Paint Mfg. Co., Euclid, O., aluminum paint.
ECONOMIZERS, FUEL AND STEAM 649
ECONOMIZERS, WASTE HEAT 649
Economy: Bemis Bros. Bag Co., St. Louis, Mo., mailing bags.
Economy: Carpenter Container Corp., B'klyn., N. Y., drums all fibre.
Economy: Superior Prods. Co., Somerville, Mass., sour.
Economy Hardface: Amer. Brake Shoe Co., Chicago Heights, Ill., electrodes.
Edamin: Sheffield Farms Co., Inc., Norwich, N. Y., protein hydrolysate.
Edisto: Stanley Doggett, Inc., N.Y.C., china clay.
Edtbauer: B. F. Gump Co., Chicago, Ill., net weighers.
Eff ber: Fritzsche Bros., N.Y.C., coffee flavor extract.
Efficiency: Superior Chemical Works, Louisville, Ky., anti rusting compounds.
Egg Albumen see **Albumen Egg**
Oil see Egg Yolk
YOLK 223
Yolk Oil see Oil Egg Yolk
Eggol: Sherwood Refg. Co. Inc., Englewood, N. J., white mineral oils.
Ego: Gillam Soap Works, Ft. Worth, Texas, soap powder.
EJECTORS, STEAM JET 650
EJECTORS, WATER JET 650
Eka: Bergstrom Trading Co. Inc., N.Y.C., sodium hydroxide & potassium hydroxide.
Ekome: Fritzsche Bros., Inc., N.Y.C., flavor groups.
E-Kon-O-Kote: Crescent Chemical Corp., Perth Amboy, N. J., mashing compound.
Elaine: Emery Indust., Inc., Cinc'ti, fatty acids.
Elan Tibet: Floraasynth Labs., Bronx, N. Y., perfume.
Elarco: L. Revsche & Co., Newark, N.J., ceramic colors.
Elastenamel: Dehls & Stein Inc., Newark, N. J., acid resistant coating.
Elastex: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., plasticiser.
Elastic Castroleum: Esso Standard Oil Co., N. Y. C., wool yarn and horsehair prod.
Elasticraft: Cincinnati Industries Inc., Cincinnati, O.
Elastigum: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., coating, cement.
Elastikote: Tropical Paint & Oil Co., Cleveland, O., paints.
Elastine: Stein Hall & Co., N.Y.C. rayon size.
Elastobond: Paisley Prods., Inc., Chicago, Ill., emulsion cement.
Elastoil: Cole & DeGraf, San Francisco, Calif., processed oils.
Elastoplastic: Polymer Chemical Co., Cincinnati, O., vinyl dispersion comp.
Elaterite see **Mineral Rubber**
Elavl see **Ethylene**
El-Boo Cleaner: Wyandotte Chems. Corp., Wyandotte, Mich., cement cleaner.
Elcacid: L. & R. Organic Products Co., Inc., N.Y.C., acid dyestuffs.
Elcacryl: L. & R. Organic Products Co., Inc., N.Y.C., acetate dyestuffs.
Elcaloid: Ruger Textile Color Co., B'klyn, N.Y., protective colloid.
Elcaso: L. & R. Organic Products Co., Inc., N.Y.C., developed dyestuffs.
Elco: L. & R. Organic Products Co., Inc., N.Y.C., dyes.
Elcobat: L. & R. Organic Products Co., Inc., N.Y.C., vat dyestuffs.
Elcochrome: L. & R. Organic Products Co., Inc., N.Y.C., chrome dyestuffs.
Elcofast: L. & R. Organic Products Co., Inc., N.Y.C., direct fast dyestuffs.
Elcolan: L. & R. Organic Products Co., Inc., N.Y.C., fast acid dyestuffs.
Elcomine: L. & R. Organic Products Co., Inc., N.Y.C., direct dyestuffs.
Elcosite: Elgin Softener Corp., Elgin, Ill., greensand zeolite.
Elcosul: L. & R., Organic Products Co., Inc., N.Y.C., sulfur dyes.
Eldurite: Elgin Softener Corp., Elgin, Ill., syn. zeolite.
Eldura: Ellis Paint Co. Long Beach, Calif., house paints.
Elecel: Ruger Textile Color Co., B'klyn, N.Y., acetate dye.
Elechrome: Ruger Textile Color Co., B'klyn, N.Y., acid wool dye.
Electric Ear: Hardinge Co. Inc., York, Pa., electronic grinding control.
Electrifugal: Allis-Chalmers, Milwaukee, Wisc., pumping units.
Elec-tri-pak: Triangle Package Machy. Co., Chicago, Ill., high speed weighers.
Electro-Airmat: Amer. Air Filter Co., Inc., Louisville, Ky., elec., precipitator.
Electro-Cell: Amer. Air Filter Co. Inc., Louisville, Ky., electronic precipitator.
Electro-cooler: Allis-Chalmers, Milwaukee, Wisc., cooling systems.
ELECTRODES, CARBON 650
Electrodizing: Colonial Alloys Co., Phila., Pa.
Electro-Kleen: Heatbath Corp., Springfield, Mass., cleaner.
Electrolytic Salt see **Nickel Salts Single**
Electro: Erie Mfg. Co., Erie, Pa., magnets.

Electro-Matic: Amer Air Filter Co., Louisville, Ky., elec. precipitator.
Electromax: Leeds & Northrup Co., Phila., Pa., signalling controllers.
"Electromet": Electro Metallurgical Div., Union Carbide & Carbon Corp., N.Y.C., ferro-alloys and metals.
ELECTRONIC DEVICES 650
Electronik: Minn. Honeywell Regulator Co., Philadelphia, Pa., potentiometer.
Electrophotometer: Fisher Scientific Co., Pittsburgh, Pa., colorimeter.
Electro-Pi: Amer. Air Filter Co. Inc., Louisville, Ky., electronic filter.
Electroplast: Foote Mineral Co., Phila., refract. cement.
ELECTROPLATING Salts see Salts Electroplating SOLUTIONS 520
Electro-Purj-It: The Diversey Corp., Chicago, Ill., cleaning comp.
Electros: Charles B. Chrystal Co. Inc., N. Y. C., colloidal kaolin.
Electr-o-Vane: Minn Honeywell Regulator Co., Philadelphia, Pa., control unit.
Electro-Vapor: Blaw-Knox Division, Pittsburgh, Pa., processing vessels.
Electroviscometer: Fisher Scientific Co., Pittsburgh, Pa., viscometer.
Electrunite: Republic Steel Corp., Cleveland, O., tubing, conduits.
Elemethyl Green B: Ruger Textile Color Co., B'klyn, N.Y., basic dye.
Elemine: Ruger Textile Color Co., B'klyn, N.Y., direct dye.
ELEVATORS, BAG AND BARREL 650
BUCKET 650
CONTINUOUS FLOW 650
PORTABLE 650
SCREW 650
TRAY 650
Elex: Koppers Co. Inc., Pittsburgh, Pa., precipitators.
Elf: Godfrey L. Cabot, Inc., Boston, carbon black.
Elgee: Wolfen Chem. & Supply Co., Paterson, N. J., paint stripper.
Elgex: Elgin Softener Corp., Elgin, Ill., corrosion preventives.
Elixirin: Interchemical Corp., Newark, N. J., wet-ink varnishes.
Elixador: Wells Chem. Co., Johnstown, N. Y., tannages.
Elkide: Webb Belting Co., Kansas City, Mo., leather belting.
"El-Ko" for Stucco: Ellis Paint Co., Long Beach, Calif., cement paints.
Elko: E. M. Laning Co., Irvington, N. J., perfume bases.
Elkol: Sherwin-Williams Co., Cleveland, paint thinner and solvent.
Eloma: Esso Standard Oil Co., N. Y. C., pipe coatings.
Elon: Eastman Kodak Co., Rochester, N. Y., photo developing agent.
Elsol: Neatsfoot Oil Refineries Corp., Phila., fat liquors.
Elvacet: E I du Pont de Nemours & Co., Electrochem. Dept., Wilmington, Del., polyvinyl acetates.
Elvanol: E I du Pont de Nemours & Co., Electrochem. Dept., Wilmington, Del., polyvinyl alcohols.
Emargol: The Emulsol Corp., Chicago, Ill., margarine emulsifier.
EMBALMING FLUIDS 520
Embeco: Master Builders Co., Cleveland, Ohio, metallic grouting aggregate.
Emcols: The Emulsol Corp., Chicago, Ill., surface active agents.
Emerald Green see Copper Acetoarsenite
Emeraldol: General Dyestuff Corp., N. Y. C., acid dye.
Emeraude Green see Guignet's Green
Emergency: Wright-Austin Co., Detroit, Mich., steam traps.
Emersol: Emery Industries, Inc., Cincinnati, O., fatty acids, oils.
EMERY POWDERED 224
Emgeo: Western Electro-Chem Co., Los Angeles, Calif., magnesium oxide.
Emlon: Wyandotte Chems. Corp., Wyandotte, Mich., emulsion cleaner.
Emoline: Cincinnati Oil Works Co., Cincinnati, Ohio, glycerine sub.
Empire: Amer. Dist. Steam Co., N. Tonawanda, N. Y., steam traps.
Empire: A. P. Green Fire Brick Co., Mexico, Mo., fire-clay brick.
Ems: E. W. Smith Chemical Co., Los Angeles, Calif., cleaners.
Emsolve 223: E. W. Smith Chem Co., Los Angeles, Calif., oil additive.
Emson: E. Machlett & Son, N. Y. C., rubber tubing.
Emulastic: Ralph V. Rulon, Inc., Phila., Pa., asphalt emulsions.
Emulio: Kepec Chemical Corp., Milwaukee, Wisconsin, lacquer emulsions.
Emulphogene: General Dyestuff Corp., N. Y. C., detergent.
Emulphor: Gen'l Dyestuff Corp., N.Y.C., emulsifying agent.
Emulsept: The Emulsol Corp., Chicago, Ill., quaternary ammonium sanitizer.
EMULSIFIERS 520
TEXTILE 522
EMULSIFYING MACHINERY see also Mills Colloid 650
Emulsifying Wax see Waxes Emulsifying
EMULSIONS, STABILIZERS 523
POLYSTYRENE 523
VINYL 523
Emulso: Niagara Chem. Div., Middleport, N. Y., oil emulsion.
Emulsol: Martin Dennis Co., Newark, N. J., fat liq.
Emul-Solv: Nielco Chemicals Inc., Detroit, Mich., emulsion cleaners.
Emulsone: Glyco Prods. Co., Hyden, N. Y., vegetable gum.
Emulsoprep: Neilson Chem. Co., Detroit, Mich., cleaning comps.
Emulsowax: General Wax Refining Co., N.Y.C., carnauba sub.
Emulsterol: The Beacon Co., Boston, superfatting agt.
Enamel White see Lithopone
Enameloid: Sherwin-Williams Co., Chicago, Ill., enamel.
ENAMELED APPARATUS 650
Enamelers' Clay see Clay Enamelers'
Oxides see Oxides Enamelers'
Enamelac: V.F.P. Co., Detroit, Mich., syn. lacquer.
ENAMELS, ACID RESISTANT 523
ALUMINUM 523
BAKING 523
BITUMINOUS 524
BOILER 524
BREWERS' 524
CONCRETE 524
DIPPING 524
EGG SHELL FINISH 524
FLAT 524
FURNITURE 524
GLASS 524
LEATHER 524
METAL 524
OIL-PROOF 524
PIPE LINE 524
PORCELAIN 524
REFRIGERATOR 524
RESIN BASE 525
STOVE 525
THERMOPLASTIC 525
VITREOUS 525
ENAMELS (cont'd)
WIRE 525
WRINKLY 525
En Bloc: Sharples Corp., Phila., Pa., centrifuge.
Encolcid: Enco Chemical Corp., N. Y. C., lecithin.
Endol: Sachs Mfg. Co., Pittsburgh, Pa., insecticide.
End-Seal: Gilbreath Chem. Co., San Fran., Calif., wood sealer.
"End-Shak": Newark Wire Cloth Co., Newark, N.J., shaking machine.
Endure: Republic Steel Corp., Cleveland, O., stainless steel.
Enfleur: Fritzsche Bros. Inc., N. Y. C., syn. floral base.
English Red see Iron Oxide, Red
English White see Calcium Carbonate
Englo: Amer. Enka Corp., N.Y.C., synth. fibre.
Engravers' Specialties see Cement Engravers'; Ink Engraving; Waxes Engravers', etc.
En Jay: William J. Hough Co., Chgo., naphthas, aromatic, blended,
En Masse: Stephens-Adamson Mfg. Co., Aurora, Ill., Redler conveyor-elevators.
Enos: Diversey Corp., Chicago, Ill., insecticides.
ENZYMES 224
Epanone: Fritzsche Bros., N.Y.C., perfume fixative.
EPHEDRINE HYDROCHLORIDE 225
Epic: Esso Standard Oil Co., N. Y. C., liquid greases.
EPICHLOROHYDRIN 225
Epidil: Fiber Chem. Corp., Cliffwood, N. J., fat liquors.
EPINEPHRINE 225
Epitan: Fiber Chem. Corp., Cliffwood, N. J., tanning agents.
Eponit: R. W. Greeff & Co., N.Y.C., activated carbon.
Epoxycyclohexane see Cyclohexene Oxide
Epoxyethane see Ethylene Oxide
1,2-Epoxyethylbenzene see Styrene Oxide
Epoxypropane see Propylene Oxide
Epsom Salts see Magnesium Sulfate
EQUIPMENT, BOILER WATER CONTROL 650
GLASS LINED 650
LABORATORY 650
LEAD, LEAD LINED 651
NICKEL AND NICKEL ALLOYS 651
PHOSPHATE CONTROL 651
PORCELAIN 651
RUBBER 651
RUBBER LINED 651
STONEWARE 651
USED 651
VACUUM COATING 652
WATER ANALYSIS 652
Equipoise: Precision Scientific Co., Chicago, Ill., shaker.
Eradico: Midland Color & Chem. Co., N.Y.C., paint remover.
Erco: Duff Chemical Co., Inc., N. Y. C., phosphorus.
Erganil: General Dyestuff Corp., N.Y.C., acid dye for leather.
ERGOSTEROL 225
Erifon: Du Pont Co., Pigments Dept., Wilmington, Del., flame retardant.
Erkalin: Advance Solvents & Chem. Corp., N.Y., wetting agt.
Ertel: M. O. Grove & Co., San Fran., Calif., filters.
Ertrane: Nopco Chemical Co., Harrison, N. J., air entraning agent.
Erusticator: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., rust remover.
Erusto: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., sours and blues.
Erusto-Cetic: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., wet cleaning sour.
Erythrene see Butadiene
Escarom: Edwin Seebach Co., N.Y.C., ess. oils, aromat. chems.
"Esco": Preservative Products Co., N.Y.C., preservatives.
ESCULIN 225
Esotoo: Virginia Smelting Co., W. Norfolk, Va., sulfur dioxide.
Especco: Superior Prods. Co., Somerville, Mass., starches, solvents.
Essanay: Pyrene Mfg. Co. Newark, N.J., fire exting. charge.
Essence of Niobe see Methyl Benzoate
Essence of Mirbane see Nitrobenzene
Essential Salt of Lemon see Potassium Binoxalate
Essoleum: Esso Standard Oil Co., N. Y. C., high temperature fiber grease.
Essorod: Esso Standard Oil Co., N. Y. C., grease lubricant.
Essotex: Esso Standard Oil Co., N. Y. C., self-emulsifying fiber lubricant.
Esstic: Esso Standard Oil Co., N. Y. C., refined lubricants.
Esstan: Esso Standard Oil Co., N. Y. C., lime-base greases.
Esswx: J. M. Huber Corp., N.Y.C., carbon black.
Essyew: Sun Chemical Corp., L. I. C., N. Y., color inks.
Ester Gums see Gums Ester
Estercide: California Spray-Chemical Corp., Richmond, Calif., isopropyl ester.
Esterol: Harwyd Chems. Inc., Holland, Mich., rubber plasticizer.
Esteron: Dow Chemical Co., Midland, Mich., weed killer.
Esters see Methyl Acetate, Ethyl Acetate, Butyl Acetate, Isopropyl Acetate, Methyl Amyl Acetate, Octyl Acetate, 2 Ethyl Butyl Acetate, Ethylene Glycol, Monomethyl Ether Acetate, Ethylene Glycol Monoethyl Ether Acetate, Diethylene Glycol Monoethyl Ether Acetate, Diethyl Sulfate, Ethyl Acetoacetate, Methyl Acetoacetate, etc.
Esterwax: Baker Castor Oil Co., N.Y.C., fatty acid esters.
Estex: F. G. Heap & Sons, Boston, Mass., industrial inks.
Estide: Armour & Co., Chicago, Ill., syn. oil.
Esto: Electro-Chemical Supply & Engineering Co., Emmaus, Pa., electrical control.
Estol D: E. F. Drew & Co., N. Y. C., sulfonated tallow.
ESTRADIOL 225
Estramine: Onyx Oil & Chem. Co., Jersey City, N. J., detergent.
ESTROGENIC SUBSTANCES 225
Estrogon: Biorganic Laboratories, Inc., B'klyn., N. Y., female hormone.
ETCHING COMPOUNDS 525
Eternalure: Onyx Oil & Chem. Co., Jersey City, N. J., resin finish.
Ethal see Alcohol Cetyl
Ethanenitrile see Acetonitrile
Ethal see Alcohol Cetyl
Ethanal see Acetaldehyde
Ethanamide see Acetamide
Ethanol see Alcohol Ethyl
Ethanolamine see Monoethanolamine
Ethanoyl Chloride see Acetyl Chloride
Ethene see Ethylene
Ethenyl Acetate see Vinyl Acetate
Chloride see Vinyl Chloride

ETHER 225
Absolute see Ether
ALLYL 226
AMYL 226
BUTYL NORMAL 226
DIBENZYL 226
DICHLORETHYL 226
DICHLORISOPROPYL 226
DICHLORODIPHENYL 226
DIETHYLENE GLYCOL MONOBUTYL 226
DIETHYLENE GLYCOL MONOETHYL 226
DIETHYLENE GLYCOL MONOMETHYL 226
DIMETHYL 226
ETHYLENE GLYCOL DIETHYL 226
ETHYLENE GLYCOL ETHYLBUTYL 226
ETHYLENE GLYCOL MONOBUTYL 226
ETHYLENE GLYCOL MONOETHYL 226
ETHYLENE GLYCOL MONOMETHYL 226
ETHYLENE GLYCOL MONOPHENYL 226
HEXYL 226
Hydriodic see Ethyl Iodide
ISOPROPYL 226
NORMAL BUTYL 227
Proacetic see Acetone
VINYL n-BUTYL 227
VINYL CHLOROETHYL 227
VINYL METHOXYETHYL 227

Etherin see Ethylene
Ethine: see Acetylene
Ethinine see Ethylamine
Ethocaine see Procaine Hydrochloride
Ethocel: Dow Chemical Co., Midland, Mich., adhesives.
Ethofats: Armour & Co., Chicago, Ill., surface-active agt.
Ethomeens: Armour & Co., Chicago, Ill., surface-active agt.
Ethomids: Armour & Co., Chicago, Ill., surface-active agt.
Ethonic Anhydride see Acetic Anhydride
Ethoxanol: Maher Color & Chem Co., Chicago, Ill., penetrating agent.

ETHOX: Ohio-Apex, Inc., Nitro, W. Va. Nitro 152

Diethoxy Ethyl Phthalate. Ethoxy Glycol Phthalate. An excellent plasticizer for nitrocellulose and polyvinyl resins. Has good resistance to light and its low oil solubility improves the oil resistance of films. Since Ethox freezes at 31°C., it is usually a solid and its use requires a warming oven or bath. Most resins are soluble in Ethox.

p-Ethoxyacetanilid see Acetophenetidin
ETHOXYDIGLYCOL PHTHALATE 227
ETHOXY GLYCOL PHTHALATE 227
Ethycel: C. J. Osborn Co., N.Y.C., pigment dispersion.
ETHYL ACETATE 227
Acetic Ester see Ethyl Acetate
ACETOACETATE 227
12-Acetoxy Ricinoleate see Ethyl Acetyl Ricinoleate
ACETYL RICINOLEATE see also Fatty Acid Esters 227
ACETYLENE see also 1-Butyne 227
ACID PHOSPHATE 228
ACRYLATE 228
Aldehyde see Acetaldehyde
Alphaoxypropionate see Ethyl Lactate
AMINE 228
p-AMINOBENZOATE 228
ANILINE (Normal) 228
ANTHRANILATE 228
BENZENE 228
o-ETHYL BENZENESULFONAMIDE 228
ETHYL BENZOATE 228
o-BENZOYL BENZOATE 228
BENZYL ANILINE 228
Benzyl-Phenyl Amine see Ethyl Benzyl Aniline
BORATE 228
BROMIDE 228
2-ETHYL BUTYL ACETATE 228
ETHYLBUTYL KETONE 228
2-ETHYL BUTYRALDEHYDE 228
ETHYL BUTYRATE 228
CARBAMATE 228
Carbinol see Alcohol Propyl
Carbonate see Diethyl Carbonate
CELLULOSE 229
CHLORIDE 229
CHLOROACETATE 229
Chlorocarbonate see Ethyl Chloroformate.
CHLOROFORMATE 229
CINNAMATE 229
CROTONATE 229
CYANOACETATE 229
CYCLOHEXANE 229
Ester see Ethyl Benzoyl Acetate
DIFLUOROACETATE 229
Ether see Ether and Diethyl Ether
2-Ethylhexanol see 2-Ethyl-3-Propyl Acrolein
FORMATE 229
o-FORMATE 229
2-Ethyl Hexanal see Octyl Aldehyde
HEXANEDIOL 229
2-Ethylhexanediol-1 see Ethylhexanediol
ETHYLHEXYL CHLORIDE 229
2-Hexanol see Alcohol Octyl
2-ETHYLHEXALDEHYDE 229
2-ETHYL HEXYLACETATE see also Octyl Acetate 229
ETHYL HEXYL AMINE 229
2-ETHYL HEXYL BROMIDE 229
2-Ethylhexylene Glycol see Ethylhexanediol
Ethyl Hydrate see Alcohol Ethyl
Hydride see Ethane
Hydrobromic see Ethyl Bromide
Hydroiodic Esters see Ethyl Iodide
o-HYDROXY BENZOATE 229

ETHYL (cont'd)
Hyponitrous see Ether Nitrous
HYDROXYISOBUTYRATE 229
IODIDE 229
ISOBUTYRATE 229
LACTATE 230
LAURATE 230
LEVULINATE 230
LITHIUM 230
MALEATE 230
MALONATE 230
MERCAPTAN 230
METHACRYLATE 230
MONOBROMACETATE 230
MONOCHLOROACETATE 230
MONOETHANOLAMINE 230
MONOETHYLAMINE 230
MORPHOLINE 230
MYRISTATE 230
NITRATE 230
NITRITE 230
OLEATE 230
Oxide see Diethyl Ether
OXALATE 230
PHENYL ACETATE 230
PHENYL ETHANOLAMINE 230
PHOSPHATE 230
m-PHOSPHATE 230
Phthalate see Diethyl Phthalate
PROPIONATE 230
Propionyl see Diethyl Ketone
Protocatechuic: see Ethyl Vanillin
2-ETHYL 3-PROPYL ACROLEIN (2-Ethylhexanal) 230
ETHYL RICINOLEATE 230
SALICYLATE 231
SEBACATE 231
SILICATE 231
SODIUM OXALACETATE 231
Sodium Oxylate see Sodium Ethyl Oxylacetate
STEARATE 231
SUCCINATE 231
Sulfate see Diethylsulfate
p-TOLUENE SULFONATE 231
TRIFLUOROACETATE 231
VALERATE 231
Valerianate see Ethyl Valerate
VANILLIN 231
Ethylac: Sharples Chemicals Inc., Philadelphia, Pa., rubber accelerator.
ethylaniline see Monoethylaniline
ETHYLENE 231
Aldehyde see Acrolein
BROMIDE 231
CHLORBROMIDE 231
Chloride see Ethylene Dichloride
Chlorhydrin see Chlorohydrin
CYANOHYDRIN 231
Dibromide see Ethylene Bromide
DIAMINE 231
DIBROMIDE see also Ethylene Bromide 231
DICHLORIDE 231
Formate see Glycol Diformate
GLYCOL 232
GLYCOL DIBENZENESULFONATE 232
Glycol Diethyl Ether see Ether Ethylene Glycol Diethyl
Glycol Diformate see Glycol Diformate
GLYCOL DISTEARATE 232
GLYCOL ESTERS 232
Glycol Dimethyl Ether see 1,2-Dimethoxy Ethane
Glycol Monobutyl Ether see Ether Ethylene, Monobutyl
Glycol monoethyl Ether see Ether Ethylene Glycol Monoethyl
GLYCOL MONOETHYL ETHER ACETATE (Cellosolve Acetate) 232
GLYCOL MONOMETHYL ETHER ACETATE 232
ETHYLENE IODIDE 232
OXIDE 232
Tetrachloride see Acetylene Tetrachloride
THIOUREA 232
ETHYLENEIMINE 233
ETHYLIDENE 233
DICHLORIDE 233
Ethenyl Chloride see Vinyl Chloride
Ethyne see Acetylene
Eucalyptene: Fritzsche Bros. Inc., N. Y. C., blend of eucalyptus.
1-ETHYNYLCYCLOHEXANOL 233
EUCALYPTOL 233
EUCATROPINE 233
Euchrysine: Gen'l Dyestuff Corp., N.Y.C., basic dye.
Eucs: Euclid Chem. Co., Cleveland, waterproofings, hardeners.
EUGENOL 233
Eulan: Gen'l Dyestuff Corp., N.Y.C., mothproofing comp.
Eukanol: Gen'l Dyestuff Corp., N.Y.C., leath. finish.
Eukesol: General Dyestuff Corp., N. Y. C., leather finish.
Eulara: General Dyestuff Corp., N.Y.C., moth repelling agent.
Eulysine: General Dyestuff Corp., N.Y.C., dyeing assistant.
Eumercin: Warwick Chem. Co. Division, W. Warwick, R.I., mercerizing penetrants.
Eunaphthol: General Dyestuff Corp., N. Y. C., stabilizing agent.
Eunatrol see Sodium Oleate
Eureka: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., flux.
Eureka: McCann Chemical Co., Louisville, Ky., soap powders.
Eureka: Standard Oil Co. (Indiana), Chicago, Ill., greases.
Eureol see Resorcinol Monoacetate
Eute Chrom: Eutectic Welding Alloys Corp., N. Y. C.
Eutec Rod: Eutectic Welding Alloys Corp., N. Y. C.
Eutec Trode: Eutectic Welding Alloys Corp., N. Y. C.
Eutector: Eutectic Welding Alloys Corp., N. Y. C.
Eutinol: Jacques Wolf & Co., Passaic, N. J., print wash.
EVAPORATORS BASKET TYPE 653
CRYSTALLIZING 653
ELECTRICALLY HEATED 653
FILM TYPE 653
FORCED CIRCULATION 653
GLASS LINED 653

EVAPORATORS (cont'd)
LEAD 653
THERMOCOMPRESSION 653
VACUUM 654
Evart: Link-Belt Co., Indianapolis, Ind., detachable link-belt chain
Evenate: Amalgamated Chemical Corp., Philadelphia, Pa., dyeing assistant.
Evenray: Fostoria Pressed Steel Corp., Fostoria, O., infrared equipt.
Ever-Glo: Elkay Products Co., N.Y.C., polish.
Ever Green: McLaughlin Gormley King Co., Minneapolis, Minn. garden spray.
Everbond X: E. L. Bruce Co., Memphis, Tenn., floor mastic.
Everite: The Diversey Corp., Chicago, Ill., descaling compound.
Everlight: American Luminous Products Co., Huntington Park, Calif., radium.
Ever-Tite: Gow-Mac Instrument Co., Newark, N. J., thermal conductivity.
Ev-R-Glo: Midland Labs., Dubuque, Iowa, self polishing wax.
Exalgae: Inertol Co., Inc., Newark, N. J., algaecide.
Ex-All: Chemical Mfg. Sales Co., Chicago, Ill., weed-killer.
Exaltolide: Firmenich & Co., N. Y. C., macro cyclic lactone.
Exax: Kimble Glass Div., Owens-Illinois Glass Co., lab. glassware.
Ex-Cel: Ph. Chaleyer, Inc., N. Y. C., bakers' flavors.
Ex-cell: Chem. Enging. Sales Co., Chicago, Ill., plastic.
Excello: Smith Chem. & Color Co., Bklyn., N.Y., var. cements.
Excello: Imperial Oil & Gas Prods. Co., Ptsbgh., carbon black.
Excello: Neatsfoot Oil Refineries Corp., Phila., Pa., neatsfoot oils.
Excelsior: Binney & Smith Co., N.Y.C., black pigments.
Excelsior: Du Pont Co., Ammonia Dept., Wilmington, ammonium bicarbonate.
Excelsior: Magnus, Mabee & Reynard, Inc., N.Y.C., vanillin.
Excelsior: Pacific Clay Products, Los Angeles, Calif. firebrick.
Excelsor: Geo. W. Diener Mfg. Co., Chicago, Ill., safety appliance.
Exeter: United Clay Mines Corp., Trenton, N.J., Eng. China clay.
EXCHANGERS, HEAT 653
EXHAUSTERS, GAS 654
STONEWARE 654
Exit G: Woollen Chem. & Sub. Co., Paterson, N. J., soak metal cleaner.
Excitron: Allis-Chalmers, Milwaukee, Wisc., rectifier.
Exolvent: Sherwin-Williams Co., Cleveland, paint & varn. thinner.
EXPANDERS, TUBE 654
EXPANSION, JOINTS 654
EXPLOSIVES, AGRICULTURAL, INDUSTRIAL 525
Expulsion Port: Allis-Chalmers, Milwaukee, Wisc., arc depotentiators.
Ex-O-Wax: Nopco Chemical Co., Harrison N. J., for reclaiming waxed paper.
Exskal: H. C. Collier & Sons, Inc., Binghamton, N. Y., descaling comp.
EXTINGUISHERS, FIRE 654
Extra: Du Pont Co., Explosives Dept. Wilmington, Del., dynamite.
Extra dry exotoo: Virginia Smelting Co., W. Norfolk, Va., refrigeration.
Extra Refined: Will & Baumer Candle Co., Inc., Syracuse, N. Y., yellow beeswax.
EXTRACTORS, JACKETED 654
LABORATORY 654
LIQUID 654
MIST 654
OIL OR GREASE 654
PRESSURE 654
SOLVENT 654
VACUUM 654
Extracts for Tanning see Tanning Extracts; Tanstuffs Synthetic; Tanages
EXTREME PRESSURE BASES 525
EXTRUDING COMPOUNDS 525
Extrud-O-Lube: Genseke Brothers, Chicago, Ill., rubber extruding compound.
E-Z Open: F. G. Findley Co., Milwaukee, Wis., palletizing glue.
Eso: Gillam Soap Works, Ft. Worth, Texas, soap powder.

F

F: Binney & Smith Co., N.Y.C., bone black.
5F5: Sterling Paint & Varnish Co., Malden, Mass., paint remover.
F-100: Wyandotte Chems. Corp., Wyandotte, Mich., detergent.
FA: Quaker Oats Co., Chicago, Ill., furfuryl alcohol.
F Albe: Pfaltz & Bauer, N.Y.C., aromatic chems.
F B 200: J M Huber, Inc., N Y., conductive type furnace black.
F C T: Titanium Alloy Mfg. Div., Nat'l Lead Co., N.Y.C., titanium alloys.
F G Binney & Smith Co., N Y.C., bone black.
F-H Airslide: Fuller Co., Catasauqua, Pa., pneumatic systems.
F-M: National Filter Media Co., New Haven, Conn., filter cloths.
FM 101: Delamar-Hendrey Chemical Co., Chicago, Ill., brewers peptone.
F.N.A.: Paisley Prods., inc., Chicago, Ill., non-warp animal glue (cake form).
FOS-40: Planetary Chem. Co., Creve Coeur, Mo., tetraethyl pyrophosphate-tech.
FRC: The Robinson Clay Products Co., Akron, O., silica brick.
FTS: E. F. Drew & Co., Inc., N. Y. C., mineral oil.
Faber du Faur: Allis-Chalmers, Milwaukee, Wisc., furnaces.
FABRIC Fire-Proofing Compounds see Fire-Proofing Compounds
Preservatives see Preservatives Fabric
SHINE REMOVERS 525
FABRICATORS, STAINLESS STEEL 654
Fabritex & Gumolite: Royce Chem. Co., Carlton Hill, N. J., sol. indian gums.
Fairprene: E I du Pont de Nemours & Co., Fabric & Finishes Dept., Wilmington, Del., cements.
Faith: Fidelity Trading Co., Inc., San Francisco, Calif., egg albumin.
Falco: Fallek Prods. Co., Inc., N. Y. C., dyestuffs.
Falcon: Eagle Soap Corp., Huntington, Ind., soap.
Falcon: Max Huncke Chem. Co., Bklyn., N. Y., embalming fluid.
Falconal: Fallek Prods. Co., Inc., N. Y. C., wetting agents.
Falconol: Fallek Products Co., Inc., N.Y.C., wetting agent.
Falconon: Fallek Prods. Co., Inc., N. Y. C., syn. det.rgents.
Falcoptal: Fallek Products Co., Inc., N.Y.C., optical bleach.
Falcosept: Fallek Products Co., Inc., N.Y.C., preservatives.
Falkalum: Falk & Co., Pitts., Pa., aluminum paints, vehicle.
Falkidine: Falk & Co., Pitts., Pa., fractionated oil.
Falkolin: Falk & Co., Pitts., Pa., linseed oils.
Falkomast: Falk & Co., Pitts., Pa., caulking compound vehicle.
Falkosoy: Falk & Co., Pitts., Pa., soybean oils.
Falkote: Falk & Co., Pitts., Pa., ester gums.
Falkovar: Falk & Co., Pitts., Pa., fish oils.
Falkowood: Falk & Co., Pitts., Pa., tung oil substitute.
Falkyd: Falk & Co., Pitts., Pa., glycerol phthalate resins.
False Saffron see Saffron, American
Faltwrap: Paisley Products, Inc., Chicago, Ill., tightwrap glue.
Fanal: General Dyestuff Corp., N.Y.C., lake dye.
Fanox: Esso Standard Oil Co., N. Y. C., comp. oils.
FANS, COOLING 654
EXHAUST 654
FUME REMOVAL 655
PORTABLE 655
VENTILATING 655
Fan-tail: Chemical Mfg. Sales Co., Chicago, Ill., cool-aid.
Farac: Cole & DeGraf, San Francisco, Calif., tall oil fatty acids.
Faratron: Lumenite Electronic Co., Chicago, Ill., liquid level control.
Farber: North American Refractories Co., Cleveland, O., fire clay brick.
Farlite: Farley & Loetscher Mfg. Co., Dubuque, Iowa, wood veneer.
Farlwood: Farley & Loetscher Mfg. Co., Dubuque, Iowa, laminated plastic sheet.
Farmex: Atlas Powder Co., Wilmington, Del., agricultural explosives.
Faset: Bowers Printing Ink Co., Chicago, Ill., offset ink.
Fastack: Paisley Prods. Inc., Chicago, Ill., glue.
Fastain: V. X. Dolan & Co., Inc., Chicago, Ill., wood stain.
Fastfome: Pyrene Mfg. Co., Newark, N.J., fire extng. charge.
Solvents see Solvents Fats and Oils
Fastick: Paisley Products Inc., Chicago, Ill., paste.
Fastolux: Ansbacher-Siegle Corp., Rosebank, S. I., N. Y., phthalocyanine blues.
Fasts Self Aligning: Koppers Co. Inc., Pittsburgh, Pa., couplings.
Fastusol: Gen'l Dyestuff Corp., N.Y.C., direct dye.
FAT LIQUORS 525
FATS HYDROGENATED 233
FATTY ACID ESTERS 233
Fatty Acid Pitch see individual headings such as Stearine; Oil Cottonseed; Oil Palm; Oil Corn; etc.
Acids (Distilled) see Acids Fatty Distilled
FATTY ACIDS, CASTOR OIL 234
FAUCETS, STONEWARE 655
Faultless: Link-Belt Co., Indianapolis, Ind., brand conveyor belts.
Faxam: Esso Standard Oil Co., N. Y. C., paraffin base red engine oils.
Feather: Worthington Pump & Machinery Corp., Harrison, N. J., valve.
Feather Spec: Willson Prods. Inc., Reading, Pa., eye protector.
Feather Valve: Worthington Pump & Machinery Corp., Harrison, N. J., air compressor valve.
Febis: Esso Standard Oil Co., N. Y. C., paraffin base oils.
FEEDERS 655
AUTOMATIC APRON 655
CONSTANT WEIGHT 655
CONTINUOUS FLOW 655
DRY 655
ORE 655
PLUNGER 655
PROPORTIONING 655
RIBBON 656
ROTARY 656
SCREW 656
TABLE 656
VIBRATING 656
Feedex: Foundary Service, Inc. N.Y.C., exothermic feeding compound.
Feinc: Filtration Engineers, Newark, N. J.
Fel Bovis see Ox Gall
Felco: Felton Chem. Co., Bklyn., synthetic oils.
Felcobur: Felton Chem. Co., Inc., Bklyn., N. Y., imitation butter flavor.
FELDSPAR 234
Felspar see Feldspar
Feltoscour: General Dyestuff Corp., N.Y.C., scouring agent for felts.
Feltron: General Dyestuff Corp., N.Y.C., hat dyeing assistant.
Fen: Amalgamated Chemical Corp., Philadelphia, Pa., water repellants.
Fendix: Davison Chem. Corp., Baltimore, Md., auto undercoating.
Fenetrate: Sherman Laboratories, Detroit, Mich., iron tablets.
Fenolastic: McDougall-Butler Co., Inc., Buffalo, N. Y., rubber base paint.
Feon: Filtration Engineers, Inc., Newark, N. J., syn. fibre filter cloths.
Ferdico: L. W. Ferdinand & Co., Inc., Newton Lower Falls, Mass., waterproof glues.
Ferdiseal: L. W. Ferdinand & Co., Inc., Newton Lower Falls, Mass., marine glue.
Fermate: E I du Pont de Nemours & Co., Grasselli Dept., Wilmington, Del., fungicide.
FERMENTING EQUIPMENT 654
Fermex: Wallerstein Co. Inc., N.Y.C., diastatic malt prep.
Ferr-O-Niel: Nielco Chemicals, Detroit, Mich., phosphoric acid cleaner.
Ferri Citras see Ferric Citrate
Sulphas see Ferrous Sulfate
Ferrenewo: Lunkenheimer Co., Cincinnati, O., valves.
FERRIC ACETATE 234
Ammonium Alum see Iron and Ammonium Sulfate
Ammonium Citrate see Iron and Ammonium Citrate
Ammonium Oxalate see Iron and Ammonium Oxalate
Ammonium Sulfite see Iron and Ammonium Sulfate
CHLORIDE 234
CITRATE 235
Ferrocyanide see Prussian Blue
FLUORIDE 235
Hydrate see Ferric Hydroxide
HYDROXIDE 235
HYPOPHOSPHITE 235
LACTATE 235
NITRATE 235
OLEATE 235
OXALATE 235
OXIDE see also Iron Oxide Brown see also Iron Oxide, Red 235
PHOSPHATE 235
Potassium Cyanide see Potassium Ferricyanide
Pyrophosphate see Iron Pyrophosphate
Resinate see Iron Resinate
Sesquioxide Hydrated see Ferric Hydroxide
Sodium Oxalate see Iron and Sodium Oxalate
STEARATE 235
SULFATE 235
SULFIDE 235
Tersulfate see Ferric Sulfate
THIOCYANATE 235

FERRIC (cont'd)

Trichloride see Ferric Chloride
Trioxide see Iron Oxide Red
Ferricyanide see Potassium Prussiate Red
Ferrite: Binney & Smith Co., N.Y.C., iron oxide.
Ferrite Yellow see Iron Oxide Yellow
Ferro: Linde Air Prods. Co., N.Y.C., flux for cast iron.
Ferroammonium Sulfate see Ferrous Ammonium Sulfate
Ferro: Ferro Chemical Corp., Bedford, Ohio, naphthenate driers.
FERRO CARBON TITANIUM 235
Ferro Case: C. S. Buchanan Chem. Co., Cinn., Ohio, case-hardening compound.
FERROCHROMIUM 235
Ferrochromite see Chromite
Ferrocote: Quaker Chem. Prods. Co., Conshohocken, Pa., rust preventives.
Ferrocyanide see Potassium Prussiate Yellow
Ferrodex: W. D. MacDermot Chemical Co., Bristol, Conn., electrolite alkali cleaners.
Ferro-Floc: Tennessee Corp., Atlanta, Ga., partially hydrated ferric sulfate.
FERROMANGANESE 235
FERRO MOLYBDENUM 236
FERRO PHOSPHOROUS 236
Ferrosoferric Oxide see Iron Oxide
FERRO SILICON 236
Ferro-Terj: Du Bois Co., Cincinnati, Ohio, detergent.
FERRO TITANIUM 235
Ferrotite: Johns-Manville Corp., N.Y.C., cement & iron compound.
FERROTUNGSTEN 236
FERROVANADIUM 236
FERROUS AMMONIUM SULFATE 236
CARBONATE 236
CHLORIDE 236
Fluoborate see Iron Fluoborate
GLUCONATE 236
LACTATE 236
Potassium Cyanide see Potassium Ferrocyanide
Protochloride see Ferrous Chloride
Protosulfide see Ferrous Sulfide
SULFATE 236
SULFIDE 237
Ferrox: Witco Chem. Co., N. Y., yellow iron oxides.
Ferrum Reductum see Iron
Ferrux: Foundry Services, Inc., N. Y. C., for ferrous castings.
FERTILIZER CONDITIONERS AND FILLERS 525
FERTILIZERS, CHEMICAL CONCENTRATED 525
Fertilime: Gibsonburg Lime Products Co., Gibsonburg, O., hydrated lime.
Ferulok: Parker Appliance Co., Cleveland, O., tube fitting.
Festoform see Formaldehyde
Fiberpak: Continental Can Co. Inc., N. Y. C., fibre drums.
Fibertex: Baroid Sales Division, Nat'l Lead Co., Los Angeles, Calif., sealing agent.
Fibestos: Monsanto Chem. Co., Plastics Div., Springfield, Mass., cellulose acetate.
Fibrasphalt: Riverside Chem. Co., Inc., No. Tonawanda, N. Y. roof coating.
Fibrekote: National Mfg. Corp., Tonawanda, N. Y., roof coating.
Fibrescour: L. Sonneborn Sons, N.Y.C. fulling comp.
Fibre tite: Super Prods. Co., Inc., Des Moines, Ia., plastic wood.
Fibro-Cel: Johns-Manville, N.Y.C., insulating filler.
Fig Fix: Thompson Horticultural Chems. Corp., Los Angeles, Calif., plant hormone.
Fig Soap see Soaps Fig
Filabond: Colloids Inc., Newark, N. J., textile size.
Filac: Horn, Jeffreys & Co., Burbank, Calif., nitrocellulose film scrap.
Filascal: Amalgamated Chemical Corp., Philadelphia, Pa., textile finishes.
Filcote: R. T. Vanderbilt Co., N.Y.C., coating clay.
FILINGS IRON & STEEL 237
FILLERS CRACK & CREVICE 525
INSULATING 526
LEATHER 526
LINOLEUM 237
MASONRY 526
MINERAL 237
PAINT 526
PAPER 237
PLASTIC 237
RUBBER 237
TEXTILE 238
WOOD 526
FILLING
EQUIPMENT, BARREL AND BAG 656
MACHINES, AMPOULE 656
MACHINES, BOTTLE 656
MACHINES, CAPSULES 656
MACHINES, LIQUID 656
MACHINES, PASTE 656
MACHINES, POWDER 656
Fillex: Scientific Glass Apparatus Co., Bloomfield, N. J., lab. paint.
FILM BASE, SCRAP 526
FILM BASES 526
Filmite: The Dubois Co., Cincinnati, O., booth mask.
Film-On: Phoenix Oil Co., Cleveland, O., rust preventive compounds.
Filpaco: Filter Paper Co., Chicago, Ill.
Filpro: U. S. Hoffman Machinery Corp., N. Y. C., industrial filters & stills.
FILTER AIDS 526, 656
BAGS 656
CLOTH (Cotton) 657
CLOTH (Metallic) 657
CLOTH (Rubber) 657
CLOTH (Synthetic Fibre) 657
DISCS 657
MATERIALS 526
MEDIA 657
PAPER 657
PLATES 658
Filter-Cel: Johns-Manville, N.Y.C., filter aids.
Filter Clear: P. R. Dreyer Inc., N.Y.C., filter media.
Filtering Carbon see Carbon Filtering
FILTER PRESSES, HYDRAULIC 658
LABORATORY 658
PLATE AND FRAME 658
VINYON FABRIC 658
FILTERS 658
ACID RESISTING 658
AIR 658
AIR (Automatic Self-Cleaning) 658
AIR (Dry) 658
AIR (Viscous) 658
ASBESTOS DISC 658
CARBON 658
CENTRIFUGAL 659
CLARIFYING 659
COLOR 659
CONTINUOUS, ROTARY 659
DISK 659
DUST 659
FEED WATER 659
GAS 659
GLASS FIBRE 659
GRAVITY 659
JACKETED 659
LABORATORY 659
LEAF 659
MAGNETIC 659
OIL 659
PAINT AND VARNISH 659
PILOT 659
PRE COAT 660
PRESSURE 660
REFRIGERATED 660
SAND 660
STEAM HEATED 660
SUCTION (Acid Proof Stoneware) 660
VACUUM 660
WATER 660
Filtersol: Davies Young Soap Co., Dayton, Ohio, dry cleaning soaps.
Filtersone: U. S. Stoneware Co., N. Y. C., filters.
Filtocott: Johnson & Johnson, Chicago, Ill., Filter Media.
Filtrabland: Petroleum Specialties, Inc., N. Y. C., petroleum sulphonates.
Filtralube: Petroleum Specialties, Inc., N. Y. C., lube oils.
Filtrapenn: Petroleum Specialties, Inc., N. Y. C., lube oils.
Filtrawhite: Petroleum Specialties, Inc. oils.
Filtrex: Consolidated Chem. Industries Inc., San Francisco, Calif., bone black.
Filtrolatum: Petroleum Specialties, Inc., N. Y. C., petrolatum.
Filtron: U. S. Hoffman Machinery Corp., N. Y. C., electrostatic filter.
Filtrona: Petroleum Specialties, Inc., N. Y. C., petroleum sulphonates.
Fit-R-Still: Amer. Cyanamid Company, Industrial Chems. Co., demineralization equipment.
Fineo: F. G. Findley Co., Milwaukee, Wis., wallpaper paste.
Fine Ground: Amer. Agric. Chem. Co., N.Y.C., agric. lime.
Finegrainol: The Wholesale Supply Co., Los Angeles, Cal., photo developer.
Finest: M. Grumbacher Inc., N. Y. C., artists' oils, brushes.
Fine-Tex: Victor Chem. Wks., Chicago, Ill., baking acid.
Fingertip: Continental Can Co., Inc., N. Y. C., aerosol dispenser.
FINISHES ALCOHOL RESISTANT 526
BAKE 526
LEATHER 526
LEATHER GLAZED 527
PATENT LEATHER 527
PIGMENTED LEATHER 527
TEXTILE 527
WRINKLE 526
Finnaline: Keppe Chem. Corp., Milwaukee, Wisc., finisher.
FIRE BLANKET 660
DETECTORS 660
Doors, Automatic see Doors, Fire
Fire-Cide: Snowden Chemical Co., Modesto, Calif., dry chemical extinguisher.
FIRE EXTINGUISHER CHARGES 528
Fire Extinguishers see Extinguishers, Fire
Fire Clay see Clay Fire; Clay Refractory
Damp see Methane
Fire Foe: Price Fire & Water Proofing Co., Poughkeepsie, N.Y., flame resisting paint.
Firecrete: Johns-Manville Corp., N.Y.C., refract. cement.
Firefrax: Carborundum Co., Perth Amboy, N. J.
Fire-Gun: Amer. LaFrance Foamite Corp., Elmira, N. Y., extinguisher.
Fireite: Johns-Manville, N.Y.C., furnace cement.
FIREPROOFING COMPOUNDS FABRIC 528
WOOD 528
Firemaster: Gamlen Chem. Co., San Fran., Calif., refractory coating.
Firex: The Reardon Co., St. Louis, Mo., fire retardant paint.
Firit: Foundry Services Inc., N. Y. C., refractory coating.
FIRST AID EQUIPMENT 660
Fish Blown Oils see Oils Blown
Fish Glue see Isinglass
Guano see Fish Scrap and Meal
Net Tar see Tar, Fish Net
Oils see Oils Fish
Oil Soaps see Soaps Fish Oil
SCRAP AND MEAL 238
FITTINGS 660
FLANGED 660
HARD RUBBER 660
HIGH PRESSURE 660
PIPE 660
SANITARY 660
SEAMLESS (for Pipe Welding) 660
STAINLESS STEEL 660
TANK 660
WELDING 660
WELDING CARBON STEEL 660
WELDING STAINLESS STEEL 660
FitzMill: M. O. Grove & Co., San Fran., Calif., pulverizers.
Five-Minute: Capitol Printing Ink Co., Inc., Washington, D.C., prtg. & litho inks.
Five Star: Amer. Colloid Co., Chicago, Ill., wood flour.
Five-X: U. S. Sanitary Specialties Corp., Chicago, Ill., cleaning & disinfecting crystals.
Fixapret: General Dyestuff Corp., N.Y.C., finishing agent.
FIXATIVES PERFUMES 530

Fixed Nitre see Potassium Carbonate
FIXERS, PHOTOGRAPHIC 528
FIXING AGENTS TEXTILE 528
Fixit: National Mfg. Corp., Tonawanda, N. Y., plastic cement.
Fixodors: Dodge & Olcott Co., N.Y.C., aromatic bases.
Flake White see Bismuth Subnitrate
FLAKERS 661
FLAME ARRESTERS 661
Flakeslein: Draper Soap Co., Pawtucket, R. I., wool scouring soap.
Flalon: J. F. T. Berliner, Chicago, Ill., nylon flannel.
Flame-otrol: Wheelco Instruments Co., Chicago, Ill., combustion safeguard.
Flame-Proofing Compounds see Fire-Proofing Compounds Textile
Flaming Red: Ansbacher-Siegle Corp., Rosebank, S. I., N. Y., chlorinated para.
FLANGES, DRUMS 661
FORGED STEEL 661
PIPE 661
Flare: The Bell Co., Inc., Chicago, Ill., automotive specialties.
Flash: Combustion Engineering-Superheating, Inc., Chicago, Ill., drying system.
Flashdur: Mass & Waldstein Co., Newark, N.J., enamel finishes.
Flash Ex: Wayne Chemical Products, Detroit, Mich., welding flash preventative.
Flashoa. Gen'l Chem. Co., N.Y.C., fluxing comp.
Flatack: Paisley Products, Inc., Chicago, Ill., non-warp glue.
Flatback: Morningstar, Nicol, Inc., N.Y.C., envelope dextrine.
Flatjet: Spraying Systems Co., Bellwood, Ill., spray nozzles.
Flat-Rite: Sherwin-Williams Co., Chicago, Ill., enamel undercoater.
Flat-Roll: Link-Belt Co., Indianapolis, Ind., belt conveyor idlers.
FLATTING AGENTS 528
Flat-Tone: Sherwin-Williams Co., Chicago, Ill., paint.
Flat-Top: Link-Belt Co., Indianapolis, Ind., conveyor chains.
Flatwrap: Paisley Prods. Inc., Chicago, Ill., glue.
Flavazine: General Dyestuff Corp., N.Y.C., acid dye.
Flavite: E. W. Colledge, G.S.A., Inc., Jacksonville, Fla., limed gum rosin.
Flavophosphine: General Dyestuff Corp., N.Y.C., basic dye.
Flaverite: Norda Essential Oil & Chem. Co., Inc., N. Y. C., flavors.
FLAVORS BAKERS' AND CONFECTIONERS' 529
BOTTLERS' 530
CONDIMENTS 530
FRUIT Natural 531
FRUIT Synthetic 531
LIQUORS & CORDIALS 531
MEAT PACKERS 531
PHARMACEUTICAL 532
TOBACCO 532
Flaxsoap: Sherwin-Williams Co., Chicago, Ill., soap.
FLAX SEED 238
Flaxseed see Psyllium Seed
Flaxwort see Psyllium Seed
Fleetkleen: Co-Operative Industries, Inc., Chester, N. J., filters and filtering equipment.
Fleurolin: Fritzsche Bros. Inc., N. Y. C., syn. floral base.
Flexaframe: Fisher Scientific Co., Pittsburgh, Pa.
Flexalyn: Hercules Powder Co., Wilmington, Del., syn. resin.
Flex-B: Amecco Chems. Inc., N. Y. C., plasticizer for resins & rubbers.
Flexflo: Cherry-Burrell Corp., Chicago, Ill., centrifugal pumps.
Flexi-Cartons: Bemis Bro. Bag Co., St. Louis, Mo., bags for chemicals.
Flexico: Inflico, Inc., Chicago, Ill., enamel.
Flexifast: Paisley Prods., Inc., Chicago, Ill., flexible glue.
Flexin P: Heyden Chem. Corp., Aktivin Div., N. Y. C., text finisher.
Flexi-Padding: Green's Paste Works, Syracuse, N. Y., glue.
Flexipipe: Bemis Bros. Bag Co., St. Louis, Mo., mine ventilation tubing.
Flexiseal: Landen Putty Wks., Malden, Mass., glazing compound.
Flexi-Unit: Goulds Pumps, Inc., Seneca Falls, N. Y.
Flexlined: Cincinnati Industries Inc., Cincinnati O.
Flexo: Atlas Powder Co., Industrial Finishes Dept., Stamford, Conn., finishes and lacquers.
Flexo: Glyco Prods. Co., Inc., Bklyn., N. Y. syn. waxes.
Flex-O-Timer: Taylor Instrument Co., Rochester, N. Y., time cycle controller.
Flexricin: Baker Castor Oil Co., N. Y. C., plasticizers.
Flexsol: Flexold Prods., Inc., Boston, Mass., solvent.
Flextack: Paisley Products, Inc., Chicago, Ill., flexible glue.
Flextender 3A: Amecco Chems. Inc., N. Y. C., rubber substitute.
Flextooth: The Jeffrey Mfg. Co., Columbus, O., crushers.
Flexyex: Russell Mfg. Co., Middletown, Conn., belting.
FLINT 238
Flintex: The Robinson Clay Products Co., Akron, O., firebrick.
Flintflex: Du Pont Co., Finishes Div., Wilmington, Del., enamels.
Flo On No Slip: Empire Chemical Prod. Co., Newark, N. J., floor wax.
Flint-Patch: The Robinson Clay Products Co., Akron, O., plastic firebrick.
Flint-Rem: Link-Belt Co., Chicago, sprocket wheels.
Flintstone see Flint
Flint Powder: Armour Auxiliaries, Chgo., bleach. asst.
Floatrol: Automatic Control Co., St. Paul, Minn.
Floctrols: The Jeffrey Mfg. Co., Columbus, O., controlled flocculation.
Flo-Dyn: Atlas Pwdr. Co., Wilmington, high explosives.
FLOATS 661
Flo-klean: Cuno Engineering Co., Meriden, Conn.
Flo-Lac: Sherwin-Williams Co., Chicago, Ill., varnish & stain.
FLOORING, ACID-PROOF 661
ASPHALT 661
BRICK 661
CARBON 661
IRON & STEEL 661
Floormaster: Lewis Shepard Prods., Inc., Watertown, Mass., trucks.
Floor-San: Huntington Labs., Huntington, Ind., floor cleaner.
FLOOR SURFACERS 532
Florence Oil see Oil Olive
Flo-Rate: Jacoby-Tarbox, Yonkers, N. Y., indicators.
Floratox: Associated Sales & Supply Co., St. Louis, Mo., weed killer.
Floratox: Wood Treating Chem. Co., St. Louis, Mo., weed killers.
Florco: Floridin Co., Warren, Pa., fullers earth.
Florene: Givaudan-Delawanna Co., N.Y.C., odor for insecticides.
Florence: N. J. Zinc Sales Co., N. Y. C., zinc oxides, french process.
Flores Martis see Ferric Chloride
Florex: Floridin Co., Warren, Pa., fullers earth.
Flor-Hard-ner: Amer. Fluresit Co., N. Y. C., Cincinnati, O., acidproofs cement.
Florianol: N. Y. Aromatics Co., N. Y., floral perfume base.
Florida: Floridin Co., Warren, Pa., fuller's earth.
Floridex: Chemical Sales Corp., Buffalo, N.Y., oil absorbent.
Florspar see Fluorspar
Florite: Floridin Co., Warren, Pa., bauxite.
Flosol: American Chemical Paint Co., Ambler, Pa., soldering flux.
FLOTATION AGENTS 238
FLOTATION REAGENTS 533
Flotation Retardants see Retardants Flotation
Flovis: Glyco Products Co., Inc., B'klyn., N. Y., starch anti-gelling agent.
FLOW CONTROL EQUIPMENT METERS 661
RESPONSIVE DEVICES 661
Flowers of Antimony see Antimony Oxide
of Bismuth see Bismuth Trioxide
of Sulfur see Sulfur
of Tin see Tin Oxide
of Tin Stone see Tin Peroxide
of Zinc see Zinc Oxide
Flozene: L. Sonneborn Sons, Inc., N.Y.C., lubricating mineral oil
Fluorasure: Du Pont Co., Photo Prods. Dept., Wilmington, Del., X-ray screens.
FLUORO PHOTO METER 661
Fluidaromes: Ph. Chaleyer, Inc., N. Y. C., aromatic gum absolutes.
Fluore-Film: Du Pont Co., Photo Prods. Dept., Wilmington, Del., X-ray film.
Fluoreleum: Du Pont Co., Pet. Chem. Div., Wilmington, Del., paste.
Fluid-Soap: Alex C. Fergusson Co., Phila., detergent
Flugrol: Nat'l Rosin Oil & Size Co., Savannah, Ga., rosin oil
Fluid-Cress: Alex C. Fergusson Co., Phila., coal-tar disinf.
Fluid-deth: Alex C. Fergusson Co., Phila., insecticides
Fluidyne: Peerless Pump Div., Los Angeles, Calif., bracket-type pumps.
Fluo-Blue: Amer. Fluoride Corp., N.Y.C., laundry blueing.
Fluo-Etch: Amer. Fluoride Corp., N.Y.C., etching comps.
FLUORENE 238
FLUORESCEIN 238
Fluor see Fluorspar
Fluorite see Fluorspar
FLUOROETHANOL 238
Fluorol see Sodium Fluoride
FLUORSPAR 238
Flur-Dry: Amer. Fluresit Co., Cincinnati, O., seals cement.
Fluroseal: Amer. Fluresit Co., Cincinnati, O., waterproofs cement.
Fluresit Anti-Freeze: Amer. Fluresit Co., Cincinnati, O., prevents concrete from freezing.
Flurtex: Amer. Fluresit Co., waterproof paint.
Fluromastic: Amer. Fluresit Co., Cincinnati, O., repairs concrete floors.
Flurostone: Amer. Fluresit Co., Cincinnati, O., acidproofs concrete.
Fluted Guide: Commercial Research Lab. Inc., flowmeters.
Flutonium see Barium
FLUXES 532
BRAZING 661
FOUNDRY 532
RUBBER 532
SOLDERING 532
WELDING 533
Fluxit: Hercules Glue Co., San Fran., insecticide spreader.
Fluxit: Colloidal Prod. Corp., San Fran., Calif., insecticide.
Fluxo: John Sunshine Chem. Co., Inc., Chicago, Ill., flux-soldering.
Flux-Stik: Lake Chem. Co., Chicago, Ill., Soldering flux.
Fly Away: L. W. Ferdinand & Co., Inc., Newton Lower Falls, Mass., insect repellent.
Fly-foil: An-fo Mfg. Co., Oakland, Calif., fly spray.
Fly Mist: Agkem Inc., Quincy, Ill., fly spray.
FLY-SPRAY BASES 533
Perfumes see Perfumes Fly-Spray
Foamex: Glyco Prods. Co., Bklyn., N.Y., defoaming agent.
Foamicide: Wyandotte Chems. Corp., Wyandotte, Mich., foam inhibitor.
FOAM FIRE PROTECTION EQUIPMENT 661
FOAMING AGENTS 533
Foam Inhibitors see Inhibitors Foam
Foamite: Amer. La France Foamite Corp., Elmira, N. Y., extinguisher.
Fogjet: Spraying Systems Co., Bellwood, Ill., spray nozzles.
Folia-Fume: S. B. Penick & Co., N.Y.C., agric. insecticide base
Folione: Givaudan-Delawanna, Inc., N. Y. C., methyl heptine carbonate.
Fomon: Delamar-Hendrey Chemical Co., Chicago, Ill., foaming agents.
Fondo: Kepec Chem. Corp., Milwaukee, Wisc., foundation coatings.
Fonoline: L. Sonneborn Sons, N.Y.C., petrolatum U.S.P.
Food Colors see Colors Food also Colors Butter and Cheese
Preservatives see Preservatives Food
Fool's Gold see Pyrites
Foramba: Uncle Sam Chem. Co. Inc., N. Y. C., insecticide.
FORGINGS, ALUMINUM 661
STEEL 661
Formadine: John Campbell & Co., N.Y.C., direct dyes.
Formal see Methylal
Formador: Sindar Corp., N. Y. C., formaldehyde odar.
FORMALDEHYDE 238
Formalin see Formaldehyde
Formalith see Formaldehyde
Formalock: Ralph V. Rulon, Inc., Phila., Pa., resin cement.
FORMAMIDE 240
Formanil: Amer. Aniline Prods., Inc., N.Y.C., dyes.
FORMANILINE 240
Formaromes: Felton Chem. Co., Inc., Bklyn., N. Y., formaldehyde perfumes.
Formaset: Warwick Chem. Co. Div., Warwick, R. I., heat-setting resins.
Formasets: Warwick Chem. Co., L.I. City, N. Y., syn. resin.
Form-A-Wrap: Triangle Package Machinery Co., Chicago, Ill., wrapping machine.
Formet: Perolin Co., Inc., N.Y.C., anti-corrosion agent.
Formic Aldehyde see Formaldehyde
Ester Normal see Amyl Formate
o-Formic Ester see Triethyl-o-Formate
Formic Ether see Ethyl Formate
Formica: Formica Insulation Co., Cinc'ti, phenolic & melamine plastics.
Formin see Hexamethylenetetramine
Formitrol see Formaldehyde
Formol see Formaldehyde
Formolyptyol see Formaldehyde
Formonitrile see Acid Hydrocyanic
Formopon: Rohm & Haas Co., Phila., sodium sulphoxylate formaldehyde.
Formosa Camphor see Camphor Natural
Formvar: Shawinigan Prods. Corp., N. Y. C., polyvinyl formal.
Form-Wrap: Triangle Package Machy. Co., Chicago, Ill., wrapping machine.

Formyl Tribromide see Tribromomethane
Trichloride see Chloroform
Formyl Triodide see Iodoform
Fortical: Celanese Corp. of Amer. N. Y. C., molding material.
Forum: Esso Standard Oil Co., N. Y. C., light colored paraffin oils.
Foseco: Foundry Services, Inc., N. Y. C., foundry compounds.
Fos-Fo: Newport Industries Inc., N.Y.C., match rosin.
***Fos-to-Tex:** Monsanto Chem. Co., St. Louis, dext.
Foskior: Westvaco Chem. Corp., N. Y. C., chlorinated sodium phosphate.
Foskior: Warner Chem. Co., N.Y.C., dext.
FOSSIL FLOUR see also **Diatomaceous Earth** 240
Wax see Wax Ozokerite
Fossilite: L. A. Salomon & Bro., N. Y. C., infusorial earth.
Fossolin see Petrolatum
Fosvex: Westvaco Chem. Corp., N. Y. C., tetraethyl pyrophosphate.
Fotochrome: Bowers Printing Ink Co., Chicago, Ill., inks.
Foto-Grain: Sherwin-Williams Co., Cleveland, paints, lacqs., white
Foundrates: American-British Chemical Supplies, Inc., New York, N. Y., foundry fluxes.
FOUNDRY Cement see Cements Foundry
Core Flour see Flour Foundry Core
CORE WASH 533
FACING 533
FLOUR 533
PARTING COMPOUNDS 533
Paste see Pastes Foundry
SAND 533
Foxboro: Foxboro Co., Foxboro, Mass., electronic instruments.
FRACTIONATORS 661
Fractol: Esso Standard Oil Co., white mineral oil.
Framboise II: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
FRAMES, FILTER PRESS STEEL 661
Frankfort Black see Drop Black
Frankincense see Gum Thus
Frankinol: Fritzsche Bros. Inc., N. Y. C., syn. olibanum base.
Franklin: W. A. Wood Co., Boston, Mass., engine oils.
Frapol: E. F. Houghton & Co., Phila., cutting comp.
Fraser's: Blain-Go Labs., Detroit, Mich.
Fraude's Reagent see Acid Perchloric
Frax: Carborundum Co., Perth Amboy, New Jersey, boiler cement.
Fresa: Precision Scientific Co., Chicago, Ill., ovens.
Free-o-weeds: Planetary Chem Co., Creve Coeur, Mo., herbicide.
Free-Vane: Bristol Co., Waterbury, Conn., pneumatic controller.
Freezene: L. Sonneborn Sons, N Y C., refrig oils
Frees-Tainer: Crown Cork Specialty Corp., Decatur, Ill., plastic container.
French Dry Kleen: Technical Chemical Corp., Bethel, Conn., cleaners.
French Saffron: see Saffron Spanish.
Freon 12: Northwest Baker Ice Mach. Co., Seattle, Wash., refrigerant.
Fresh-Air Blocks: Frank J. Breen, Chicago, Ill., deodorant blocks.
Fresko: Kepec Chem. Corp., Milwaukee, adhesives, natural rubber.
Fresso: Esso Standard Oil Co., N. Y. C., refrigerator and low temperature lubricating oils.
Frexall: Spencer Chemical Co., Kansas City, Mo., dry ice.
Frianite: Calif. Industrial Mining Co., Friant, Calif., insecticide.
Friction-Fighter: Link-Belt Co., Indianapolis, ball and roller bearings.
Frigestat: Precision Scientific Co., Chicago, apparatus for petroleum cloud and pour tests.
Frigid Arc: Eutectic Welding Alloys Corp., N. Y. C.
Frigidine: Robinson Mfg. Co., N. Y. C., rubber grinder.
Frigol: Sherwood Refg. Co. Inc., Englewood, N. J., refrigerator oils.
FRITS CERAMIC GLAZE 533
Fritzbro: Fritzsche Bros. Inc., N. Y. C. flavor and perfume specialties.
Frog-leg: Allis-Chalmers, Milwaukee, Wisc., windings.
Frontier Brand: Riverside Chem. Co., Inc., No. Tonawanda, N. Y. brass dip.
Front-View: Precision Scientific Co., Chicago, apparatus for distillation tests
Frostline: U. S. Gauge Div., Sellersville, Pa.
Frothing Agents see Foaming Agents
Oils see Oils Frothing also Acids Frothing
Fructose see Levulose
Fruit Cleaner see Cleaners Fruit
Flavors see Flavors Fruit Natural and Synthetic
Sugar see Levulose
Fruit fix: Thompson Horticultural Chems. Corp., Los Angeles, Calif., naphthaleneacetic acid spray.
Fruitosynth: Florasynth Labs., Inc., Bronx, N. Y., flavor.
Fruitset: Chipman Chem. Co. Inc., Bound Brook, N. J., hormone spray or dust.
Fuelflex: Flexoid Prods., Inc., Boston, Mass., solvent.
Fuel-Proof: Technical-Chemical Corp., Bethel, Conn., model plane dope.
Fugitint: General Dyestuff Corp., N.Y.C., tinting dye.
Fuldyne: Peerless Pump Div. Food Machy. Corp., Los Angeles, Calif., pumps.
Ful-Kontrol: Precision Scientific Co., Chicago, electric heater with built-in auto transformers.
Fuller-Flaxo: Fuller Co., Catasauqua, Pa., pneumatic systems.
FULLER'S EARTH 240
FULLING COMPOUNDS 533
Fulljet: Spraying Systems Co., Bellwood, Ill., spray nozzles.
Fullsour: L. Sonneborn Sons, N Y C., fulling comp
Full-View: Jacoby-Tarbox, Youkers, N. Y., flow indicators.
Fulscope: Taylor Instrument Co., Rochester, N. Y., automatic controller.
Full-View: Jacoby-Tarbox Corp., Yonkers, N. Y., sight flow indicators.
Fulton White see Lithopone
Fumarole Acid see Acid Boric
Fume-lite: Tropical Paint & Oil Co., Cleveland, O., fume resist white enamel.
FUME REMOVAL SYSTEMS 661
FUMIGANTS 533
Fumigas: Thompson-Hayward Chem. Co., Kansas City, Mo., grain fumigant.
Fumonex: Binney & Smith Co., N.Y.C., carbon black.
Fungchex: Berk & Co. Inc., F. W., Wood Ridge Div., Wood Ridge, N. J., fungicide for fine lawns and golf greens.
FUNGICIDES, COPPER 533
FARM 533
GARDEN 534
LEATHER 534
LUMBER 534
ORCHARD 534
SEED 534
TURF 534
Fungisyme: Jacques Wolf & Co., N. Y. C., enzymic product.
Furafil: Quaker Oats Co., Chicago, Ill., filler.
FUNNELS 661
FURAN 240
Furasol: Gen'l Dyestuff Corp., N.Y.C., fur dye.
Furatone: Irvington Varnish & Insulator Co., Irvington, N. J., furane resins.
Furbancarbonal see Furfural
Furbancarbanyl see Furoyl Chloride
FUR CLEANING COMPOUNDS 534
Fur Dressing Oils see Oils Fur Dressing
Dyes see Dyes Fur
Furfancarbonal see Furfural
Furfancarbonyl see Furoyl chloride
FURFURAL 240
Furfuraldehyde see Furfural
Furfuramide see Hydrofurfuramide
Furfuranecarboxylic Aldehyde see Furfural
Furfurol see Furfural
Furfuryl Alcohol see Alcohol Furfuryl
Aldehyde see Furfural
Amide see Hydrofuramide
Fur-Ag: Quaker Oats Co., Chicago, Ill., conditioner.

FURNACES

FURNACE ACCESSORIES 661
FURNACES, ANNEALING 661
ASSAY 661
ELECTRICAL 661
HEARTH-TYPE 662
HEAT TREATING 662
HIGH VACUUM 662
LABORATORY 662
MUFFLE 662
OIL 662
ROASTING 662
ROTARY 662
TUBE 662
VERTICAL 662
Furol see Furfural
Furyl Carbinol see Alcohol Furfuryl
Fusel Oil see Alcohol Amyl Normal
Fuses see Blasting Fuses
Furson: E. Sonnenschein & Co. Inc., N. Y. C., fur dyes.
FUSTIC 240
Fybrene Wax: L. Sonneborn Sons, Inc., pharmaceutical and industrial wax, Amorphous wax.
Fybrel: L. Sonneborn Sons, Inc., N.Y.C., **Self-emulsifying worsted and** wool lubricants for carding, combing and spinning.
Fybroleum: Esso Standard Oil Co., N. Y. C., soda base, sponge greases.
Fyrepel: Scher Bros., Clifton, N. J., flame proofing comp.
Fyrestan: Leeds & Northrup Co., Phila., Pa., thermocouple protection tube.
Fyrex: Victor Chem. Wks., Chicago, Ill., flameproofing agent.

G

G: Binney & Smith Co., N.Y.C., carbon black.
G: Calcium Carbonate Co., Chicago, Ill., limestone whiting.
G-1: Savannah Kaolin Co., Savannah, Ga., refractory white clay.
G-4: Sindar Corp., N. Y. C., mildew-proofing agent.
G-942: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., tanning agt.
GBS: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., soda.
G.D.: Kemiko Mfg. Co., Irvington, N. J., detergent cleaners.
G D C: Gen'l Dyestuff Corp., N.Y., dyes, auxiliaries.
GFS: G. Frederick Smith Chem. Co., Columbus, O., acid sol.
G. G. Press Compound: W. A. Wood Co., Boston, Mass., metal stamping compounds.
G. K.: The Robinson Clay Product Co., Akron, O., jointing compound.
GLB: J. M. Huber Corp., N.Y.C., clay.
G.L.X.: Wyandotte Chems. Corp., Wyandotte, Mich., dairy detergent.
G-R: Griscom-Russell Co., N. Y. C., water analysis equipt.
G A & F: Antara Prod., Gen'l Aniline & Film Corp., N. Y. C., iron powder.
"G" Resin: The Neville Co., Pittsburgh, Pa., syn. resin.
G SALT 240
Gagetron: Engineering Labs., Inc., Tulsa, Okla.
Galex: National Rosin Oil Prods. Inc., N.Y.C., resin stable to oxidation.
GALL EXTRACT 240
Galls see Nutgalls
GALLIUM (Metal) 240
Gallochemogin: Chemo Puro Mfg. Corp., L.I. City, N.Y., antioxidant.
Galloformin see Hexamethylenetetramine
***Gallopol:** Du Pont Co., Wilmington, basic dyes.
Galls see Nutgalls
Galpomel: Phoenix Oil Products Corp., Newark, N.J., fatty alcohols.
Galv-A-Niel: Nielco Chemicals, Detroit, Mich., metal cleaners.
Galvanizing Salts see Salts Galvanizing
GALVANOMETERS 662
Galvanex: Sherwin-Williams Co., Cleveland, paints, varn., lacquers.
Galvanum: Vita-Var Corp., Newark, N. J., paint.
Galvaprep: Nielson Chemical Co., Detroit, Mich., **prepaint treatment.**
Galvite: Sherwin-Williams Co., Cleveland, galvanized iron paint.
Gamal: Fisher Scientific Co., Pittsburgh, Pa., metallographic polishing material.
Gamal Cloth: Fisher Scientific Co., Pittsburgh, Pa., metallographic polishing cloth.
Gam Kil: Niagara Chem. Div. Food Machinery & Chem. Corp., N.Y.C., benzene hexachloride.
Gambier see Gambier Extract and Cutch
GAMBIER EXTRACT 341
Gum see Gum Gambier
Gambir see Gum Gambier
Gamboge see Gum Gamboge
Gamene see Madder
"Gamex": Littlejohn & Co., Inc., N.Y.C., gambier subst.
Gamienite: Gamlen Chem. Co., San Fran., Calif., controlling combustion deposits.
Gamlenol: Gamlen Chem. Co., San Fran., Calif., fuel oil treatment.

Gamma Acid see Acid Gamma
Gamma Range: M. Grumbacher Inc., N. Y. C., retouch colors.
Gammaloid: Amer. Cyanamid Co., N. Y. C., insecticide.
Gamma-Lutedine see 2,4-Dimethylpyridine
Gamma Neutralizer: N. Y. Aromatics Corp., N. Y. C., conditioner.
Gammanol: Griffin Chemical Co., San Francisco, Calif., petroleum sulphonate.
Gamtox: Calif. Spray-Chemical Corp., Richmond, Calif., benzene hexachloride.
Gardanthrol: Dow Chemical Co., Midland, Mich., aromatic chem.
Garantol: Inertol Co., Inc., Newark, N.J., protective treatments.
Gardenier: Michigan Chem. Corp., St. Louis, Mich., household insecticide.
Gardow: Dow Chemical Co., Midland, Mich., insecticide.
Garnet Lac see Shellac and Button-Lac
Garnet: Wilson Marton Div., Phila., Pa., oleic acid.
GAS Absorbents see Absorbents Gases
  ANALYSIS APPARATUS 662
  Black see Carbon Black
  HOLDERS 662
  Indicators see Indicators Analytical also Indicators Toxic Gas
  Hydrocarbon see Liquefied Petroleum Gases
  Meter Anti-Freeze see Anti-Freeze Meter
  Meter Detergents see Detergents Gas Meter
  ODORANTS 534
Gases see Gases Rare also Oxygen, Nitrogen, Chlorine, Nitrous Oxide, etc.
GASES, LABORATORY 241
  RARE 241
  REFRIGERATING 241
GASKETS, ACID AND ALKALI RESISTING 662
  ASBESTOS 662
  COPPER ASBESTOS 662
  FOR STEEL DRUMS 662
  LEAD 662
  LEATHER 662
  METALLIC 662
  PAPER 662
  RUBBER 662
  TEFLON 662
Gaskolac: United Lacquer Mfg. Corp., Linden, N.J., gasket finishing materials.
GASOLINE Addition Agents see Gasoline Anti-Knock Compounds
  ANTI-KNOCK COMPOUNDS 534
  Anti-Oxidants see Anti-Oxidants Gasoline
  Colors see Dyes Gasoline
Gates: Allis-Chalmers, Milwaukee, Wisc., ore crushers.
GATES DISCHARGE (Bin and Bunker) 662
GAUGES 662
  DIAPHRAGM 663
  DRAFT 663
  FILTER 663
  INDICATING VACUUM AND DIFFERENTIAL 663
  LIQUID LEVEL 663
  PRESSURE 663
  TEMPERATURE 663
  VACUUM 663
  WATER 663
GAUZE, PLATINUM 663
Gear Cutting Oils see Oils Gear Cutting
  Lubricants see Lubricants Gear
Gearreducer: Marley Co. Inc., Kansas City, Kansas, gear box.
Gearturbo: Peerless Pump Div. Food Machy. Corp., Los Angeles, Calif., pumps.
Gehnrich: Rockwell Co., W.S., Fairfield, Conn., ovens.
Geip Tight: Paisley Products, Inc., Chicago, Ill., label paste.
"Gela": Shawinigan Prods Corp., N.Y.C., polyvinyl acetate.
Gelaglaze: Commonwealth Color & Chem. Co., N. Y. C., soluble starch.
Gelamite: Hercules Powder Co., Wilmington, Del., dynamite.
GELATIN 241
Gelbin see Barium Chromate
Gelcarin: Algin Corp. of American, N.Y.C., Irish moss extract.
Gelcoalites: Atlas Powder Co., Wilmington, Del., permissible explosives
Gelex: Du Pont Co., Explosives Dept., Wilmington, Del., dynamite.
Gelloid: Jacques Wolf & Co., N. Y. C., calcium carrageheen sulphate.
Gelobel: Du Pont Co., Explosives Dept., Wilmington, Del., explosives.
Gelocel: Central Illinois Labs., Inc., Peoria, Ill., colloid wall cleaner.
Gelodyn: Atlas Powder Co., Wilmington, Del., high explosive.
Gelrite: Thomas W. Dunn Co., N.Y.C., ice cream stabilizer.
Gelva: Shawinigan Prods. Corp., N. Y. C., polyvinyl acetate.
Gemanco: George Mann & Co., Inc., Providence, R. I., alkaline detergent.
General: General Detroit Corp., Detroit, Mich., hose.
Generalime: Hanson-Van Winkle-Munning Co., Matawan, N.J., buffing comp.
GENERATORS, HYDROGEN SULFIDE 663
  INERT GAS 663
  OXYGEN 663
  STEAM 663
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Gently: Dacar Chemical Products Co., Pitts., Pa., synthetic detergent.
Geon: B. F. Goodrich Chem. Co., Cleveland, O., polyvinyl materials.
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Geranol: General Dyestuff Corp., N. Y. C., acid dye.
Geranoxide: Van Ameringen-Haebler, Inc., N.Y.C., aromatic chem.
GERANYL ACETATE 241
  BUTYRATE 242
  FORMATE 242
  PROPIONATE 242
Germail: Uncle Sam Chem. Co. Inc., N. Y. C., disinfectant.
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  OXIDE 242
Germantown Black see Lamp Black
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  AGRICULTURAL 535
Germitex: Hood Chem Co. Inc., Philadelphia, Pa., sours, laundry.
Gerosol: Fritzsche Bros., Inc., N. Y. C., Rose-Geranium blend.
Ghatti Gum see Gum Ghatti
Gialliolina see Lead Antimoniate
Giant: Atlas Pwdr. Co., Wilmington, high explosive.
Giant: Mitts & Merrill, Saginaw, Mich., machine tool.
Gibbsite see Aluminum Hydroxide
Gibraltar: Metallurgical Prods. Co., Phila., Pa., alloys.
Gigoly Oil see Oil Sesame
Gilbert: Stephens-Adamson Mfg. Co., Aurora, Ill., washing screens.
Gilder's White see Whiting
Gilpine: J. E. Bauer Co., Los Angeles, Calif., roof coatings.
Gilso: Gillam Soap Works, Ft. Worth, Texas, washing powder.
Gilsogum: Emil Klemmin, Salt Lake City, Utah, extender & paint base.
Gilsogum: Western Natural Products Co., Salt Lake City, Utah. rubber extender.
Gilsokote: Emil Klemmin, Salt Lake City, Utah. paints & coatings.
GILSONITE see also Mineral Rubber 242
Gingelly Oil see Oil Sesame
Gingili Oil see Oil Sesame
Girbotol: Girdler Corp., Louisville, Ky., gas purifier.
GL: Link-Belt Co., Indianapolis, class chain.
GLAND PRODUCTS 243
Glanortex: Inertol Co., Inc., Newark, N. J., enamel.
Glas-Glow: Central Ill. Labs. Inc., Peoria, Ill., glass rinse.
Glasize: Colloids Inc., Newark, N. J., fibre glass.
Glasmaster: Industrial Chem. Prods. Co., Phila., Pa., glass washer.
Glasply: Ralph V. Rulon, Inc., Phila., Pa., glass fabric.
GLASS APPARATUS, GROUND 663
GLASS APPARATUS, SPECIAL 663
GLASS, GROUND 663
  LABORATORY 663
GLASS REACTION VESSELS 663
Glass Liquor see Sodium Silicate
  —Makers' Soap see Manganese Dioxide
  Specialties see Inks Glass Etching; Colors Glass; Decolorizers Glass; Frosting Compounds Glass; Glue China and Glass; Sand Glass-Maker's; Opacifiers Glass; Glue Glass to Metal; Enamels Glass; Etching Compounds
GLASSES, GAGE 663
  SIGHT 663
Glass-Shine: Peerless Chem. Co., Baltimore, Md., washing glasses.
GLASSWARE, LABORATORY 663
Glauber's Salt see Sodium Sulfate Crystals
GLAZES MATT CERAMIC 535
Glaziers: Landen Putty Works, Malden, Mass., putty.
GLAZING COMPOUNDS 535
Gleastic: Stull & Co., Phila., Pa., plastic coating.
Glen: Amer. Machine & Foundry Co., N. Y. C., vertical mixing machines.
Glen: Imperial Paper & Color Co., Glens Falls, N. Y., chrome greens.
Glit: Kano Laboratories, Chicago, Ill., detergent.
Globe: Corn Prods. Refg., Co., N.Y.C., corn starches, syrups, dextrines & gums.
Globeiron: Globe Steel Tubes Co., Milwaukee, Wisc., ingot iron.
"Glo-brite": B. R. Elk & Co., Inc., Garfield, N.J., polishes.
Globrite: Crosby Chemicals Inc., De Ridder, La., limed rosin.
Glo-Dur: Brooklyn Varnish Mfg. Co., Inc., B'klyn, N.Y., glass coatings.
Gloria: L. Sonneborn Sons, Inc., N.Y.C., white mineral oil U.S.P.
Glory: Swift & Co., Chgo., laundry soap chips.
GLOVES, ASBESTOS 663
  RUBBER 663
Gloweld: Globe Steel Tubes Co., Milwaukee, Wisc., welded stainless steel tubes.
Gluantine: L. Sonneborn Sons, N.Y.C., text. binders.
Glucalon: Fallek Products Co., Inc., N.Y.C., calc. gluconate inject.
Glucarine: Glyco Prods. Co., Bklyn., N.Y., glycerin subst.
Glucid see Saccharin
Glucinum Chloride see Beryllium Chloride
Glucinum Fluoride see Beryllium Fluoride
Glucinum Nitrate see Beryllium Nitrate
Glucinum Oxide see Beryllium Oxide
Glucinum Sulfate see Beryllium Sulfate
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Glu-Shield: F. G. Findley Co., Milwaukee, Wis., waterproof glue.
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Glutin see Gelatin
Glu-Weld: F. G. Findley Co., Milwaukee, Wis., sealing glue.
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Glycero: The Beacon Co., Boston, glycerin subst.
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Glycin see Chemicals Photographic
GLYCINE see Acid Aminoacetic
Glycocoll see Acid Aminoacetic
Glyco: Jos. T. Ryerson & Son Co., Inc., Chicago, Ill., babbitt metal.
Glyco-Ester: Fries Bros., N.Y.C., non-alcoholic solvent.
Glycol see Ethylene Glycol
Glyco Neats: E. F. Houghton & Co., Phila., belt dressing.
Glycol see Ethylene Glycol
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Glyco-Neats: E. F. Houghton & Co., Phila., Pa., leather oils.
Glycox: Glyco Products Co., Inc., B'klyn., N. Y., non-ionic emulsifiers.
Glydag: Acheson Colloids Corp., Port Huron, Mich., colloidal graphite.
Glycine: General Dyestuff Corp., N.Y.C., printing assistant.
Glyptal: Chem. Dept., General Electric Co., Pittsfield, Mass., alkyd resin.
Glysorbine: Warwick Chem. Co., Long Is. City, N. Y., hemectant.
Go Getter: Revolvator Co., North Bergen, N. J., electric lift trucks.
Gob-o-suds: Chem. Mfg. & Dist. Co., Easton, Pa., synthetic cleaner.
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Glyptal: Gen'l Electric Co., Schenectady, N.Y., synth. resin.
Goat's Horn see Gum Tragacanth
GOGGLES, ACID AND DUST-PROOF ... 663
FURNACE (Heat Protective) ... 663
Gold Bond: National Gypsum Co., Buffalo, N.Y., limestone.
Gold Bond: Tamms Silica Co., Chgo., silica.
GOLD CHLORIDE ... 245
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Orange see Methyl Orange
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Solders see Solders Precious Metals
Gold Crown: K & L Chemical Co., Chicago, Ill.
Gold Label: Northville Labs. Inc., Northville, Mich., flavoring extracts.
Gold Seal: Huntington Labs., Inc., Huntington, Ind., rug shampoo.
Goldseal: Ruehi Paint Co., Cincinnati, O., house paint.
Gold Shield Alcohol: Comm'l Solvents Corp., N.Y.C., molasses alcohol.
"Golden Harvest": Milwaukee Chemical Co., Milwaukee, Wis., washing powder.
Good-rite: B. F. Goodrich Chem. Co., Cleveland, O., org. and agric. chems.
Gommeline see Dextrin
Gondola: Link-Belt Co., Chicago, car dumper.
Goremul A: Glyco Products Co., Inc., B'klyn., N. Y., emulsifier.
Gotital: Chem. Specialty Corp., New Haven, Conn., plasticizer for nitrocellulose.
Goulard's Powder see Lead Acetate
Graham's Salt see Sodium m-Phosphate
Grainal: Vanadium Corp., Bridgewater, Pa., alloy ingredient to control grain size.
Grain Oil see Alcohol Amyl Normal and Oil Fusel
Granby: Amer. Zinc Sales Co., Columbus, O, slab zinc.
Granodine: Amer. Chem. Paint Co., Ambler, Pa., phosphate-coating chem.
Granodraw: American Chemical Paint Co., Ambler, Pa., coating chemical.
Granular Glasspar: United Feldspar Co., N.Y.C., feldspar.
GRANULATORS ... 663
GRANULATORS, CRUSHERS & MILL ... 663
Grape Sugar see Corn Sugar
Graphic: Sherwin-Williams Co., Chicago, Ill., lithol red colors.
Graphicell: National Carbon Co., Inc., N. Y. C., filters and diffusers.
Graphis Reds: Sherwin Williams Co., PCYC Div., N.Y.C., lithol toners.
GRAPHITE ... 245
COLLOIDAL ... 245
Graphol: Philip A. Hunt Co., B'klyn., N. Y., photographic developing agent.
Graphol: Scher Bros., Clifton, N.J., graphite remover.
Graph-O-Stat: Philip A. Hunt, Brooklyn, N.Y., photo developer.
Grapesynth: Florasynth Labs., Inc., Bronx, N. Y., flavor.
Grasshopper: Link Belt Co., Phila., conveyor for handling sugar.
Gravitometer: Fisher Scientific Co., Pittsburgh, Pa., specific gravity balance.
Gray Acetate see Calcium Acetate
Grayco: Wm. S. Gray & Co., N.Y.C.
Graysol: Wm. S. Gray & Co., N.Y.C.

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Green Bar: National Milling & Chemical Co., Philadelphia, Pa., soap.
Green Chief Soap: Genesee Brothers, Chicago, Ill., oil soap.
Green Cinnabar see Chromium Oxide
Copperas see Ferrous Sulfate
Nickel Oxide see Nickel Oxide
Soap see Soap Green
Verdigris see Copper Subacetate and Copper Acetate
Vitriol see Ferrous Sulfate
Greenband: Milwhite Co., Houston, Texas, colloidal clay.
Greencote: A. P. Green Fire Brick, Mexico, Mo., refractory coatings.
Green Gold: Warren Rstg. & Chem Co., Cleveland, Ohio, lubricant.
Green Grit: The Carborundum Co., Niagara Falls, N. Y., green silicon carbide.
Green Seal: Phoenix Oil Co., Cleveland, lubricants.
Greenland Spar see Cryolite, Natural
Green Mercury Protoiodide: see Mercurous Iodide
Green Nickel see Nickel Oxide
Greenockite see Cadmium Sulfide
Greenzyme: Greenville Chem. Co., Greenville, S. C., digestive enzyme.
Grenoble Green: Ansbacher-Siegle Corp., Rosebank, S. I., N. Y., tungstated green.
Grid: D. J. Murray Mfg. Co., Wausau, Wisc., unit heaters.
Grid Roller: Hyster Co., Portland, Oregon, compaction unit.
Griffith's White see Lithopone
GRINDERS ... 663
Grinding Abrasives see Abrasives Grinding
GRINDING COMPOUNDS ... 537
Lubricants see Lubricants Grinding
Grind-Rite: Phoenix Oil Co., Cleveland, O., grinding compounds.
Grip-Fix: Binney & Smith Co., N.Y.C., paste.
"Grip-Loth": Paroffine Companies Inc., San Francisco, Calif., plastic board.
Griptex: Adhesive Prods. Corp., N. Y. C., latex cement.
Griptred: Goodyear Tire & Rubber Co., Akron, O., floor covering.
GRIZZLIES ... 664
Groco: A. Gross & Co., N. Y. C., fatty acids.
Gro-Min: Phoenix Chem. Co., Phoenix, Aria., agricultural mineral.
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Ground-Nut Oil see Oil Peanut
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Grubtox: Agkem, Inc., Quincy, Ill., cattle grub concentrate.
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Gual-A-Phene: E. W. Colledge, G.B.A., Inc., Jacksonville, Fla., antioxidant.
Gual-A-Phene: Glidden Co., Naval Stores Div., Jacksonville, Fla., antiskinning agt.
GUANIDINE CARBONATE ... 246
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Guarantose see Saccharin
GUARDS MACHINERY ... 664
Guardene: Pyrene Mfg. Co., Newark, N. J., fire extinguisher.
Guardex: Harsyd Chems., Inc., Holland, Mich., corrosion inhibitor.
Guardian: Hercules Powder Co., Wilmington, Del., dynamite.
Guhr see Diatomaceous Earth
Guinea: General Dyestuff Corp., N. Y. C., acid dye.

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Gum Set: R. F. Revson Co., N.Y.C., wave set gum.
Gum Catechu see Cutch
Gumeline see Dextrin
Guminol: Standard Chem. Products, Inc., Hoboken, N. J., textile finish.

Gummi Guttal see Gum Gamboge
Gumout: Penn Refining Co., Cleveland, O., additive.
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LACQUER 251
PAPER BOX MAKERS' 537
SYNTHETIC 537
TEXTILE PRINTING 537
VARNISH 251
WATER SOLUBLE 252
Gumtree see Gum Accroides
Gun Cotton see Nitrocellulose
Guntex: Flintkote Co., N.Y.C., bituminous emulsion.
Guyatt: Esso Standard Oil Co., N. Y. C., a dark fibrous lubricant.
"Gyco": Scientific Glass Apparatus Co., Inc., Bloomfield, N. J. heating jackets.
Gymloh: Midland Labs., Dubuque, Iowa, gymnasium floor finish.
Gypsite see Gypsum
GYPSUM 252
AGRICULTURAL 252
Gyrocoil: Hercules Powder Co., Wilmington, Del., electric blasting cap.
Gyroset: Productive Equipment Corp., Chicago, Ill., vibrating screen.
Gyro-Sifter: Robinson Mfg. Co., N. Y. C., vibrating screen.

H

H. Link-Belt Co., Indianapolis, class elevating and conveying chain.
H Acid see Acid H
H'a Aids: E. F. Houghton & Co., Phila., bleach. assts.
H & B: Walsh Refractories Corp., St. Louis, Mo., castable refractory.
H.E.M.: Hartman-Leddon Co., Phila., Pa., water sol. wax.
H. & F.: Howe & French, Inc., 99 Broad st., Boston, Mass., var. spec.
H-Scale: Celanese Corp. of Amer., pearl essence.
HCN, Aero: Amer. Cyanamid Co., N. Y. C., discoids.
H C N see Acid Hydrocyanic
HgX: Wm. M. Stieh & Co., Inc., N. Y. C., mercury vapor control.
H.I.O.: Hartman-Leddon Co., Phila., Pa., lens oil.
H N M see Mannitol Hexanitrate
HS-1: Thompson Horticultural Chems. Corp., Los Angeles, Calif., emulsifier.
H.S.R.: Hartman-Leddon Co., Phila., Pa., syn. resins.
H.T.: Edgar Brothers Co., Metuchen, N.J., paper coating clay.
HT: Southern Naval Stores Div., Leach Bros., Inc., Columbia, Miss., wood, rosin.
HT-44: Takamine Lab. Inc., Clifton, N. J., desizing agt.
H. T. A. Zaphonite: Zapon Division Atlas Powder Co., Stamford, Conn., wood lacquers.
"HTH": Mathieson Chem. Corp., N.Y.C., calcium hypochlorite.
HTH: National Soap & Chemical Co., Minneapolis, Minn., bleaching & sanitizing compound.
HX: J. M. Huber Corp., N.Y.C., carbon black.

For further information on any product advertised in the BUYERS GUIDE, use the Readers' Service Card — on the green inserts.

Hackney: Pressed Steel Tank Co., Milwaukee, Wis., cylinders.
Haematoxylum see Logwood
Hahnem Auris Mercury see Mercurous Chloride
Hairpin: Brown Fintube Co., Elyria, Ohio, heat exchanger.
Hallmark: Stein Hall & Co., Inc., N. Y., adhesives.
Halopont: Du Pont Co., Dyestuffs Div., Wilmington, Del., pigment colors.
Hamicol Acid Soap: Haas-Miller Corp., Phila., fulling comp.
Hammerfect: Universal Paint & Varnish Co., Cleveland, Ohio, finisher.
Hammer-Lac: Advance Paint Co., Indianapolis, Ind., finish coat.
Hammer-Namel: Brooklyn Varnish Mfg. Co., Inc., B'klyn, N. Y., hammer metal finishes.
Hammertone: Maas & Waldstein Co., Newark, N. J., finishes.
HAND CREAMS, PROTECTIVE 664
Handi-Plate: Precision Scientific Co., Chicago, electric hot plate with thermostat control.
"Handy": Handy & Harman, N.Y.C., flux.
Handy: Lunkenheimer Co., Cincinnati, O., gate valve.
Handy-dandy: Chem. Enging. Sales Co., Chicago, Ill., sanitary.
Hank Brand: Jacoby-Tarbox, Yonkers, N. Y., filter paper and cloth.
Hansa: Gen'l Dyestuff Corp., N.Y.C., lake dyes.
Hanslick: Solar Products Co., Chicago, Ill., powd. hand soap.
Han-Suds: Peerless Chem. Co., Baltimore, Md., syn. detergent.
Harchem: Hardesty Chem. Co. Inc., N. Y. C., organic chemicals.
Hardcote: McDougall-Butler Co., Inc., Buffalo, N. Y., insulating varnish.
HARDENERS CONCRETE 537
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Hardestoil: W. C. Hardesty Co., Inc., N. Y. C., fatty acids.
Hard Lead see Antimonial Lead
Hardset: H. V. Hardman Co., Inc., Belleville, N. J., brush setting comp.
Hardundum: Truscon Labs., Detroit, non-slip floor hardener.
Hardwood Pitch see Pitch Hardwood
Hardwood Tar see Tar, Wood
Hare Brand: Webb Belting Co., Kansas City, Mo., round belt.
Harflex: Hardesty Chemical Co., Inc., N.Y.C., plasticizer.
Harleco: Hartman-Ledden Co., Phila., lab. reagents.
HARTANOL: Hart Products Co., N.Y.C., fat liquor.
Hartek: Harsyd Chems. Inc., Holland, Mich., automotive chemicals.
Hartex: Hart Prods. Corp., N. Y. C., delustrants.
Harto: Hart Prods. Corp., N. Y. C., resin emulsions.
Hartopene: Hart Prods. Corp., N.Y.C., text. detergent.
Hartshorn Oil see Oil Bone
Hartshorn Salts see Ammonium Carbonate
Harvel: Irvington Varnish & Insulator Co., insulating varnishes.
Harvex: Harsyd Chems Inc., Holland, Mich., rubber accelerator.
Hascrome: Haynes Stellite Div., Union Carbide & Carbon Corp., Kokomo, Ind., impact resistant alloy.
Hastelloy: Haynes Stellite Div., Union Carbide & Carbon Corp., Kokomo, Ind., corrosion-resistant alloy.
Hastelloy: The Linde Air Prods. Co., N. Y. C., welding rods.
Hasti-dri Inks: Crowe Printing Ink Co., Phila., Pa., printing inks.
HATS & CAPS PROTECTIVE 664
Havablack: Haviland Prods. Co., Grand Rapids, Mich., steel blackening salts.
Havasol: Haviland Prods. Co., Grand Rapids, Mich., emulsion cleaner.
Havicarb: Haviland Products Co., Grand Rapids, Mich., carburizing salt.
Haveseal: Haviland Products Co., Grand Rapids, Mich., sealing compound.
Haynes Stellite: The Linde Air Prods. Co., N. Y. C., hard-facing rods.
Haystellite: The Linde Air Prods. Co., N. Y. C., tungsten carbide.
Hearth-Crete: Quigley Co., Inc., N.Y.C., castable refractory.
Hearthmix: Laclede-Christy Co., St. Louis, Mo.
Heat Exchangers see Exchangers, Heat
Heat Resistant Lacquers see Lacquers Heat Resistant
Heat Resistant Paints see Paints Heat Resistant
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LIQUID 664
MOLTEN SALT 664
OIL 664
OVEN 664
UNIT 664
HEATING SYSTEMS, DOWTHERM 664
HEATING SYSTEMS, HOT OIL (for Process Apparatus) 664
Heatone: John Sunshine Chem. Co., Inc., Chicago, Ill., boiler conditioner.
Heavy Carburetted Hydrogen see Ethylene
Heavy Spar see Barium Sulfate
Hectacream: Krayer Mfg. Co., Inc., Elizabeth, N. J., cleansing cream.
Heilac: Heil Process Equipment Corp., Cleveland, O., lacquer.
Heilex: Heil Process Equipment Corp., Cleveland, O., plastic coating.
Helianthin see Methyl Orange
Heliarc: The Linde Air Prods. Co., N. Y. C., welding apparatus.
Helicoid: Link-Belt Co., Chicago, screw conveyor.
Helindon: General Dyestuff Corp., N.Y.C., vat dye for wool.
Helio: General Dyestuff Corp., N.Y.C., lake dye.
Heliocrete: Fritzsche Bros., N.Y.C., blend. for vanilla ext.
Heliogen: General Dyestuff Corp., N.Y.C., lake dye.
Helioline-D: Woburn Chem. Corp., Kearny, N. J., alkyd resins.
Heliotrope fleurs concrete: Fritzsche Bros. Inc., N. Y. C., heliotrope base.
HELIOTROPIN 252
Heliosone: Du Pont Co., Wilmington, rub. sun preserv.
HELIUM see also Gases Rare 252
Helix: Newport Industries, Inc., N. Y. C., limed rosin.
HELLEBORE ROOT 253
Hellige: Eimer & Amend, N.Y.C., pH indicator.
Hellite: Johns-Manville Corp., N.Y.C., bonding cement for brick joints.
Hel-Lox: Chemical Mfg. Sales Co., Chicago, Ill., fire-proofing.
Helmerco: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., dyes.
HELMETS, SAFETY 664
HEMATEINE 253
Hematoidin see Bilirubin
HEMATOXYLIN 253
Hematrolylin see Hematine Extract
HEMLOCK EXTRACT 253
Hendecanone see Amyl Ketone
Hen-Dine: Calcium Carbonate Co., Chgo., iodized grit
Henning Purifier: Pittsburgh Plate Glass Co., Pittsburgh, Pa., metal cleaner.
Hep: Bostwick Labs., Inc., Bridgeport, Conn., insect killer.
Heparcalcin see Calcium Sulfide
Hepatic Gas see Hydrogen Sulfide
Hepatoflavin see Riboflavin
HEPTACHLOROPROPANE 253
HEPTADECANOL 253
HEPTALDEHYDE 253
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HEPTYL BROMIDE (Normal) 253
HEPTYL BROMIDE (Secondary) 253
Heptyl Carbinol see Alcohol Octyl, Normal, Primary.
Heptylhydride see Heptane
n-HEPTYL IODIDE 253
Heptylilyn: Naugatuck Chem. Div. U. S. Rubber Co., alpha amyl cinnamic aldehyde.
HEPTYL MERCAPTAN, Tert 253
Herbicide: Reade Mfg. Co., Jersey City, weed killer.
Herbicidol: Reade Mfg. Co., Jersey City, N. Y., weed killer.
Herbividene: Reade Mfg. Co., Jersey City, N. J., weed killer.
Herbs see Crude Drugs
Hercamon: Hercules Powder Co., Wilmington, Del., dynamite.
Hercoal: Hercules Powder Co., Wilmington, Del., dynamite.

Hercocel E: Hercules Powder Co., Wilmington, Del., molding powder.
Hercoflex 150: Hercules Powder Co., Wilmington, Del., vinyl plasticizer.
Hercogel: Hercules Powder Co., Wilmington, Del., dynamite.
Hercolyn: Hercules Powder Co., Wilmington, Del., rosin ester.
Hercomite: Hercules Powder Co., Wilmington, Del., dynamite.
Hercosol 80: Hercules Powder Co., Wilmington, Del., high boiling solvent.
Hercules: Huron Milling Co. Inc., N. Y. C., sizing & coating starches.
Hercules.: National Box & Lumber Co., Newark, N. J., carboy boxes.
Hercules-Aero: National Box & Lumber Co., Newark, N. J., carboy boxes.
Herculite: Hercules Filter Corp., Paterson, N. J., acid resistant filter frame.
"Herculite": Hercules Powder Co., Wilmington, Del., dynamite.
Herculite: Pittsburgh Plate Glass Co., Pittsburgh, Pa., plate glass.
"Herculoid": Hercules Powder Co., Wilmington, Del., nitrocellulose.
Herecrol: Heresite & Chem. Co., Manitowoc, Wis., syn. rubber.
Hero: Bostwick Labs., Inc., Bridgeport, Conn., fire extinguisher.
Herpoco: Hercules Powder Co., Wilmington, Del., fertilizer.
Herringbone: Link-belt Co., Phila., speed reducer.
Herron Wax: Berlow & Schlosser Co., Providence, R. I., rubber processing wax.
Hevyteck: Penna Refining Co., Butler, Pa., tech. white oil.
Hewhold: C. B. Hewitt & Bros. Inc., N. Y. C., for woodworking.
Hex-100: Planetary Chem. Co., Creve Coeur, Mo., miscible hexaethyl tetraphosphate.

HEXACHLORBENZENE 253
1,2,3,4,5,6-Hexachlorocyclohexane see Benzene Hexachloride
HEXACHLORODIPHENYL OXIDE 253
HEXACHLORETHANE 253
HEXACHLORNAPHTHALENE 253
HEXACHLOROPROPYLENE 253
Hexadecyl Chloride see Cetyl Chloride
HEXADECYL, MERCAPTAN, Tert 253
Hexadecanol see Alcohol Cetyl
Hexadow: Dow Chemical Co., Midland, Mich., insecticide.
HEXAETHYL TETRAPHOSPHATE 253
Hexagon: Com'l Solvents Corp., N.Y.C., cologne spirits, denat. alcohol.
Hexahydrocresol see Methyl Cyclohexanol
Hexahydrophenol see Cyclohexanol
Hexahydropyrazine see Piperazine
Hexahydropyridine see Piperidine
n-HEXALDEHYDE 253
Hex-All: Imperial Chem. Co., Los Angeles, Calif., paint remover.
Hexalin see Cyclohexanol
Hexalon: Feedwaters Inc., N.Y.C., fuel oil desludger.
Hexamethylenamine see Hexamethylenetetramine
HEXAMETHYL IODIDE 254
HEXAMETHYLENE DIBROMIDE 254
HEXAMETHYLENETETRAMINE 254
Hexamine see Hexamethylenetetramine
Hexamite: Niagara Chem. Div. Food Machinery & Chem. Corp., N.Y.C., tetraethyl pyrophosphate.
Hexamo: Riverside Mfg. Co., St. Louis, Mo., spotting soap.
Hexanitro Mannite see Mannitol Hexanitrate
HEXANE 254
Hexanol see Alcohol n-Hexyl
Hexatol: Rohm & Haas Co., Phila., textile humectant.
Hexcide 200: Niagara Chem. Div. Food Machinery Corp., Middleport, N. Y., tetraethyl pyrophosphate.
HEXESTROL 254
Hexite: Riverside Mfg. Co., St. Louis, Mo., potash soap.
Hexogena: Advance Solvents & Chem. Corp., N. Y. C., paint driers.
Hexon: Whitmoyer Laboratories, Inc., Myerstown, Pa., insecticide.
1350 Hi Solids: V. X. Dolan & Co., Inc., Chicago, Ill., wood lacquer.
1425 Hi Solids: V. X. Dolan & Co., Inc., Chicago, Ill., wood sealer.
HEXONE 254
Hexoram see Hexachlorethane
Hex-Tex: Allis-Chalmers, Milwaukee, Wisc., double v-belt.
HEXYL BROMIDE 254
Hexyl Hydride see Hexane
n-HEXYL IODIDE 254
HEXYLENE GLYCOL 254
HEXYL MERCAPTAN, Tert 254
Methane see Heptane
Methyl Ketone see Methyl Hexyl Ketone
HEXYL PYRIDINE 254
HEXYLRESORCINOL 254
Hexylene Glycol see 2-Methyl-2, 4-Pentanediol
Hg-Ten: E. F. Houghton & Co., Philadelphia, Pa., core oil.
Hi Blak: Binney & Smith Co., N.Y.C., cement colors.
Hi Head: R-S Prods. Corp., Phila., Pa., furnaces.
Hi-Flex: Cherry-Burrell Corp., Chicago, Ill., conveyor.
Hi-Gam: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., BHC insecticide.
Hihre: Denver Clay Co., Denver, fire brick.
"hi-g": General Controls Co., Glendale, Calif., magnetic valves.
High: Haviland Prods. Co., Grand Rapids, Mich., metal cleaner.
High duty: Stearns Magnetic Mfg. Co., Milwaukee, Wisc.
High Nitrogen: Sheffield Farms Co., Inc., Norwich, N. Y., pharmaceutical casein.
High PH: Sheffield Farms Co., Inc., Norwich, N. Y., industrial casein.
High Speed: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., tinning flux.
High-Speed: Arthur Harris & Co., Chicago, Ill., vacuum evaporators.
High-Speed: Heatbath Corp., Springfield, Mass., salt bath.
High-Ten No. 500: Industrial Service Labs., Milwaukee, Wis., soldering flux.
Hi-Glo: Western States Lacquer Corp., Los Angeles, Calif., protective coatings.
Hi-Gloss: Chemical Mfg. Sales Co., Chicago, Ill., polishes.
Hi-Lift: Peerless Pump Div., Los Angeles, Calif., deep well pumps.
Hills: Super Prods. Co., Inc., Des Moines, Ia., fitter.
Hi-Lo-Stack: Clark Equipt. Co., Battle Creek, Mich., spc. uprights.
Hi-Lumite: Walsh Refractories Corp., St. Louis, Mo., refractory.
Hi-Luster: Frederic B. Stevens Inc., Detroit, Mich., buffing composition.
Hippuran: Mallinckrodt Chem. Works, St. Louis, Mo., urinary diagnosis.
Hisolv: Penna. Industrial Chemical Co., Clairton, Penna., aromatic solvents.
HISTAMINE 254
HISTAMINE DIPHOSPHATE 254
SALTS 254
HISTIDINE MONOHYDROCHLORIDE 254
SALTS 254

Hitco: H. I. Thompson Co., Los Angeles, Calif., rubber cements.
Hitec: Du Pont Co., Explosives Dept., Wilmington, Del., heat transfer salt.
Hi-tem: Electro-Chemical Supply & Engineering Co., Emmaus, Pa., coatings.
Hi-Temp: E. F. Houghton & Co., Phila., Pa., lubrication oil.
Hi-Ten: Emery Industries, Inc., Cincinnati, O., textile oil.
Hi-Tone: Wollen Chem. & Supply Co., Paterson, N. J., liq. cleaner.
Hi-Velocity: Du Pont Co., Explosives Dept., Wilmington, Del., gelatin.
Hi-White: J. M. Huber Corp., N.Y.C., clay.
Hoffco-Vac: U. S. Hoffman Machinery Corp., N. Y. C., vacuum cleaning systems.
Hobbing Oils see Oils Hobbing
Hocoloid: E. F. Houghton & Co., Phila., colloidal clay for dept.
Hocut: E. F. Houghton & Co., Phila., broaching comp.
Hog Gum see Gum Tragacanth

HOISTS, AIR 664
CHAIN 664
ELECTRIC 664
HAND 664
PORTABLE 664
SKIP 664

Hold-Ark: Speer Carbon Co., St. Marys, Pa., welding carbons.
Holdbest: C. B. Hewitt & Bros. Inc., N. Y. C., for woodworking.
Holdfast: F. J. Heap & Son, Boston, Mass., pastes.
Holdz Wast: Liquid Veneer Corp., Buffalo, liq. shellac comp.
"Holiday": Milwaukee Chemical Co., Milwaukee, Wis., washing powder.
Hollway Colors: Holland Color & Chem Co., Holland, Mich., for steam set inks.
Homo: Leeds & Northrup Co., Phila., Pa., tempering & nitriding furnace.
Homocarb: Leeds & Northrup Co., Phila., Pa., curburizing furnaces.

HOMOGENIZERS 664
Hoof Oil see Oil Neatsfoot
Hoosier Humus: Dickerson & Co., Phila., Pa., natural dried humus.

HOPPERS 664
AUTOMATIC WEIGHING 665
Horm: Hormann & Co. Inc., B'klyn, N. Y., filters.

HORMONES 254
Horsehead: N. J. Zinc Sales Co., N. Y. C., slab zinc.

HOSE, ACID RESISTING 665
AIR 665
FIRE 665
GREASE 665
HIGH PRESSURE 665
METAL FLEXIBLE 665
OIL & GASOLINE 665
OXYACETYLENE 665
PETROLEUM SOLVENTS 665
RUBBER 665
SAND BLAST 665
STEAM 665
STEAM DRIVEN 665
VACUUM, FLEXIBLE 665

Hot-Flow: Infilco, Inc., Chicago, Ill., water softener plants.
Hotmarx: American Crayon Company, Sandusky, Ohio, metal markers.
Hot-Melts: Hass Process Corp., N. Y. C., plastics.
"Hotpack": Electric Hotpack Co., Inc., Phila., Pa., baths.

HOT PLATES, ELECTRIC 665
GAS 665

Houghto-Clean: E. F. Houghton & Co. Phila., Pa., cleaners.
Houghto-Draw: E. F. Houghton & Co., Phila., Pa., drawing & stamping comp.
Houghto-Size: E. F. Houghton & Co., Phila., Pa., size comps.
Houghto-Wax: E. F. Houghton & Co., Phila., Pa., for adding to size.
Houghto-Quench: E. F. Houghton & Co., Philadelphia, Pa., quenching oil.
Hovalco: Homestead Valve Mfg. Co., Coraopolis, Pa., valves.
Hu: Hughes Glue Co., Detroit, Mich., glue.

HUMECTIFIERS 537
Humectol: General Dyestuff Corp., N.Y.C., wetting agent.

HUMIDIFYING APPARATUS 665
Hump: Leeds & Northrup Co., Phila., Pa., electric furnaces.
Humidry: Carrier Corp., Syracuse, N. Y., portable dehumidifiers.
Hu Res: Hughes Glue Co., Detroit, Mich., syn. resin glues.
Humidigraph: Bristol Co., Waterbury, Conn., humidity recorder.
Huron Alkali: Wyandotte Chems. Corp., Wyandotte, Mich., alkaline detergent.
Huron Bleach: Kaschene Chem. Co., Elizabeth, N.J., sodium hypochlorite.
Hurricane: Sterling Paint & Varnish Co., Malden, Mass.
Hurr Nuts see Myrobalan Extract

HYALURONIDASE 255
Huvinac: Hukill Chem. Corp., Cleveland, O., glue.
Hyamine: Rohm & Haas Co., Phila., Pa., bactericide.
Hy-Cap: Du Pont Co., Pigments Dept., Wilmington, Del., pigments.
Hycar: B. F. Goodrich Chem. Co., Cleveland, O., American rubber.
Hy-Case: Sheffield Farms Co., Inc., Norwich, N. Y., edible acid hydrolysate of casein.
Hycoflex compds.: Standard Glue Co., N. Y. C., sizings and coatings.
Hychol: Robinson Wagner Co., Inc., N.Y.C., cholesterol lanolin.
Hycolite: Standard Glue Co., N. Y. C., glue.
Hyde-Ro Rings: Atlas Mineral Products Co., Mertztown, Pa., rubber rings.
Hydracrylonitrile see Ethylene Cyanohydrin
Hydrargillite see Aluminum Hydroxide
Hydralase: Jacques Wolf & Co., N. Y. C., enzymic product.
Hydramotor: General Controls Co., Glendale, Calif., electro-hydraulic operated valves.
Hydrargyri Chloridum Corrosivum see Mercuric Chloride
Chloridum Mite see Mercurous Chloride
Perchloridum see Mercuric Chloride
Subchloridum see Mercurous Chloride
Hydrargyrum see Mercury
Hydraphtal: Du Pont Co., Fine Chems. Div., Wilmington, Del., text. processing agt.
Hydrasolv: Crosby Chemicals, Inc., De Ridder, La., terpene solvent.
Hydrated Alumina see Aluminum Hydroxide
Copper Oxide see Copper Hydroxide
Iron Oxide see Ferric Hydroxide
Hydratex: J. M. Huber Corp., N.Y.C., paper coating.

HYDRATORS, LIME 665
Hydra-Tone: Foy Electro-Chemical Co., Ansonia, Conn., metal cleaner.
Hydrazone: Allis-Chalmers, Milwaukee, Wisc., pumps.
Hydraulic Brake Compounds see Brake Compounds Hydraulic
Cement see Cements Hydraulic

HYDRAULIC FLUIDS 537
Oils see Oils Hydraulic
HYDRAZINE BASE 255
HYDRAZINE DIHYDROCHLORIDE 255
HYDRATE 256
SULFATE 255
HYDRAZOBENZENE see also Phenylhydrazine 256
Hydrazobenzol see Hydrazobenzene
Hydrex: Foy Electro-Chem Co., Ansonia, Conn., metal cleaners & solvents.
Hydrex: W. C. Hardesty Co., Inc., N. Y. C., fatty acids.
Hydrholac: Rohm & Haas Co., Phila., emulsions nitrocellulose.
Hydrhoplex: Rohm & Haas Co., Phila., resin finishes for text.
Hydrimet: Metal Hydrides, Inc., Beverly, Mass., metallic hydrides.
Hydro: Chem. Mfg. Sales Co., Chicago, Ill., boiler compd.
Hydro: Chem. Enging. Sales Co., Chicago, Ill., inhibitor boilers.
Hydrobreak: Diamond Alkali Co., Cleveland, Ohio, laundry detergent.
Hydrocal: U. S. Gypsum Co., Chicago, Ill., gypsum cement.
Hydrocar: Superior Chemical Works, Louisville, Ky., anti-soot comp.
Hydrocarbon Black see Carbon black
Hydrocarbons see Fillers Mineral
Hydro-Caulk: Zophar Mills Inc., B'klyn., N. Y., marine glue.
Hydrocerin: R. W. Greeff & Co., N.Y.C., emulsifying agt.
Hydrochinone see Hydroquinone
Hydrochloric Ether see Ethyl Chloride
Hydrocide 500 & 880: L. Sonneborn Sons, Inc., N. Y. C., Dampproofing
Hydro-Cy: Du Pont Co., Electrochem Dept., Wilmington, hydrocyanic acid.
HYDROCLASSIFIERS 665
Hydrodarco: Darco Corp., N. Y. C., activated carbon.
Hydrodisodium Phosphate see Sodium Phosphate Di-Sodium
Hydro-Drive: E. F. Houghton & Co., Phila., Pa., hydraulic oil.
Hydro-Foil: Peerless Pump Div., Los Angeles, Calif., flow pumps.
Hydrofol: Werner G. Smith Co., Cleveland, O., fatty acids.
Hydroform: Peerless Color Co., Inc., Plainfield, N.J., textile dyes.
HYDROFURAMIDE 256
Hydrogarde: Pyrene Mfg. Co., Newark, N. J., fire extinguisher.
HYDROGEN
Bromide see Acid Hydrobromic
BROMIDE, ANHYDROUS 256
Chloride see Acid Muriatic
CHLORIDE ANHYDROUS 256
Cyanide see Acid Hydrocyanic
Diammonium Phosphate see Ammonium Phosphate Di
Dioxide see Hydrogen Peroxide
FLUORIDE see also Acid Hydrofluoric 257
GAS 257
Iodide see Acid Hydriodic
Nitrate see Acid Nitric
PEROXIDE 257
Sulfate see Acid Sulfuric
SULFIDE 257
Hydrogen Ammonium Fluoride see Ammonium Bifluoride
Hydrogenated Naphthas see Naphthas Hydrogenated
Oils see Oils, Hydrogenated
Hydrogen Fluoride also see Acid Hydrofluoric
HYDROGENATION FACILITIES 665
Hydro-Kloser: T. Shriver & Co., Inc., Harrison, N. J.
Hydrolal: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Hydrolate: Diamond Alkali Co., Cleveland, Ohio, cleanser.
Hydromatic: Allis-Chalmers, Milwaukee, Wisc., tires.
HYDROMETERS 665
Hydron: Gen'l Dyestuff Corp., N.Y.C., vat dye.
Hydrone: Du Pont Co., Electrochem Dept., Wilmington, sodium-lead alloy.
Hydronol: Du Pont Co., Wilmington, alcohol denaturants.
Hydronon: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., foundation coating.
Hydro-ox: Chem. Mfg. Sales Co., Chicago, Ill., hot-water treatment.
Hydropel: Commonwealth Color & Chemical Co., N. Y. C., water repellant.
Hydropellet: Metal Hydrides, Inc., Beverly, Mass., calcium hydride tablets.
Hydroprotein: Fries & Fries, Inc., N. Y. C., condiment.
Hydroquinol see Hydroquinone
HYDROQUINONE 257
HYDROQUINONE MONOBENZYL ETHER 258
Hydroseal: Thomson-Porcelite Paint Co., Philadelphia, Pa., waterproofing.
Hydrosodic Carbonate see Sodium Bicarbonate

HYDROTROPIC ALDEHYDE 536
SOLUTIONS 536
Hydrous Ferric Peroxide see Ferric Hydroxide
Iron Peroxide see Ferric Hydroxide
Hydro Warkote: Warren Refg. & Chem. Co., Cleveland, Ohio, floor wax.
Hydroxanil: Maher Color & Chem. Co., Chicago, Ill., dyestuff developers.
Hydroxphenol see Pyrocatechol
Hydroxy: Kail Mfg. Co., Phila., sizes, finishes.
Hydroxy Arrisol see Guaiacol
Benzene see Phenol
Brasilin see Hematoxylin
Butane see Alcohol Butyl Normal
Butyraldehyde see Aldol
Chlorethane see Ethylene Chlorohydrin
Citronellal see Chemicals Aromatic
a-Hydroxyisobutyronitrile see Acetone Cyanohydrin
Methyl Anethol see Propenyl Guaethol
Paracymene see Thymol
Trichlorobenzene see Trichlorphenol
2-Hydroxy Biphenyl see Orthoxenol
4-Hydroxy Biphenyl see Paraxenol
3-Hydroxy 2-Butamine see Acetyl Methyl Carbinol
2-Hydroxy-p-Cymene see Carvacrol
3-Hydroxy-2-Naphthoic Acid see Acid b-Hydroxy Naphthoic
4-Hydroxy 2 Keto-4-Methylpentane see Alcohol Diacetone
2-Hydroxy-1,2,3-Propane see Acid Citric
2-Hydroxyethyl Amine see Monoethanolamine
p-HYDROXYBENZALDEHYDE 258
p-HYDROXYBENZOIC ACID ESTERS 258
HYDROXYCITRONELLAL 258
HYDROXYCITRONELLOL 259
p-HYDROXY DIPHENYLAMINE 258
HYDROXYETHYL CELLULOSE 258
Hydroxyethyl Ethylene Diamine see 2-Aminoethylethanolamine
n-HYDROXYETHYL MORPHOLINE 258
HYDROXYL AMINE ACID SULFATE 258
HYDROXYLAMINE HYDROCHLORIDE 258
SULFATE 259
HYDROXYLAMMONIUM ACID SULFATE 259
ACID CHLORIDE 259
SULFATE 259
2-HYDROXY-3 METHOXY-BENZALDEHYDE 259
Hydroxyphenylalanine see Tyrosine-l, Natural
o-HYDROXY PHENYL MERCURIC CHLORIDE 259
B-Hydroxypropionitrile see Ethylene Cyanohydrin
HYDROXYPYRUVIC ALDEHYDE 259
8-Hydroxyquinoline Citrate see Oxyquinoline Citrate
HYDROXYQUINOLINE SULFATE 259
m-Hydroxy Toluene: see Meta Cresol
Hydrozin: Jacques Wolf & Co., Passaic, N. J., stripper.
Hydry: Sun Chemical Corp., L. I. C., N. Y., printing inks.
Hy-Fac: Emery Industries, Inc., Cincinnati, O., hydrogenated fats.
Hygirtol: Girdler Corp., Louisville, Ky., hydrogen mfg. plant.
Hygrola: Colloids Inc., Newark, N. J., glycerine sub.
38Hygrolit: Kearny Mfg. Co., Kearny, N. J., lubricant.
HYGROMETERS 666
Hygropel: Maher Color & Chem. Co., Chicago, Ill., textile waterproofing agts.
Hy-Lift: Baker Industrial Truck Div., Cleveland, O., platform trucks.
Hy-Lift: Baker-Raulang Co., Cleveland, Ohio, fork trucks.
Hy-Lux: Ellis Paint Co., Long Beach, Calif., enamels.
Hymolon: Hart Prods. Corp., N. Y. C., detergent.
Hynide: Heatbath Corp., Springfield, Mass., salt bath.
Hynite: Alex. M. McIver & Son, Charleston, S. C., fertilizer tankage.
Hypalon: Du Pont de Nemours, Ammonia Dept., Wilmington, Del., syn. resins.
Hyplites: Southern Naval Store Div., Lesch Bros., Inc., Columbia, Miss., resins.
Hypo see Sodium Hyposulfite
Hypochlorite Disinfectants see Disinfectants Hypochlorite
of Lime see Bleaching Powder
Hypodyne: Ferro Chemical Corp., Bedford, O., dispersing agents.
Hypol: Heyden Chem. Corp., N. Y. C., text. bleaching agt.
Hyporice: Mallinckrodt Chem. Wks., St. Louis, rice crystals.
Hyposone: Sherwood Refg. Co. Inc., Englewood, N. J., sodium hypochlorite sol.
Hypressure: Homestead Valve Mfg. Co., Coraopolis, Pa., jenny steam cleaners.
Hyrolia: Fritzsche Bros. Inc., N. Y. C., syn. floral base.
Hysol: Patent Chems., Inc., Paterson, N. J., plastic dyestuffs.
Hy-Speed: Alsop Engr. Corp., Milldale, Conn., mixers, agitators, tanks.
Hytempite: Quigley Co., Inc., N. Y. C., bonding mortar.
Hytergen: Hart Prods Corp., N. Y. C., detergent.
Hy-tex: Barton Chem. Co., Chicago, Ill., water softener & cleaner.
Hytork: Allis-Chalmers, Milwaukee, Wisc., synchronous motors.
Hytrol-16: Phillips & Martin Co., Chicago, Ill., wood dye stain solvent.
Hy-Tox Sulphur: Miller Chem. & Fert. Corp., Baltimore, Md., wettable sulphur.
Hywer: H & W Chems. Inc., Rochester, N. Y., cleaning compds.
Hy-Wite: H. Kohnstamm & Co., Inc., N. Y. C., soap.

I

I-B-M: Benjamin Foster Co., Phila., Pa., asphalt products.
I.C.U.: Livingston Co., New Haven, Conn., metal polish.
Iberin: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Iboa: Interlake Chemical Corp., Cleveland, O., resin core binder.
ICE-CRUSHER-SLINGERS 666
ICE MAKING EQUIPMENT 666
Ice-Stik: Paisley Products, Inc., Chicago, Ill., bottle label glue.
Ice Stone see Cryolite, natural
ICHTHAMMOL see also Ammonium Ichthyolsulfonate 259
Ichthyamer: Amer. Pharmaceutical Co., N.Y.C., ichthammol.
Ichthymall: Mallinckrodt Chemical Works, St. Louis, Mo., Ammonia ichthosulphonate.
Ichthynat: Heyden Chem. Corp., N. Y. C., ichthammol N. F.
Ichthyocolla see Isinglass
ICHTHYOL 259
Ideal: B. F. Gump Co., Chicago, Ill., flour mill machry.
Idilite: M. P. Iding Disc Grinding Compound Co., Inc., Milwaukee, Wis., abrasives.



HYDROSULFITES

HYDROSULFITE A.W.C.
for stripping and discharge printing.

HYDROSULFITE OF SODA
for reduction of vat colors and bleaching fats.

HYDROSULFITE Q.D. (High and Fast Solubility)

HYDROSULFITE C W
for pigment white discharge.

INDIGOLITE
for white discharge on Indigo dyed fabrics.

JACQUES WOLF & CO.
Manufacturing Chemists & Importers
Passaic, N. J. • Carlstadt, N. J. • Los Angeles, Calif.

Idlon: M. P. Iding Disc Grinding Compound Co., Inc., Milwaukee, Wis., abrasives.
Iding: M. P. Iding Disc Grinding Compound Co., Inc., Milwaukee, Wis., adhesives.
IDLERS, BELT CONVEYOR 666
Ienite 1: Tennessee Eastman Corp., Kingsport, Tenn., cellulose acetate plastic.
Igas: Sika Chemical Corp., Passaic, N.J., joint sealer.
Igenal: General Dyestuff Corp., N. Y. C., leather dye.
Igepal: General Dyestuff Corp., N. Y. C., wetting.
Ilco Way: Illinois Water Treatment Co., Rockford, Ill., water treatment equipment.
Illini: Sherwin-Williams Co, Chicago, Ill., lithol red colors.
Illium: Burgess-Parr Co., Freeport, Ill., corrosion resistant alloys.
Illuminating Gas Enrichers, see Gas Enrichers Illuminating
ILLUMINATORS, GAUGE GLASS 666
ILMENITE 259
Imacco: Industrial Minerals & Chem Co., Berkley, Calif., non metallic minerals.
IMIDAZOLE 259
2-Imidazolidinethione see Ethylene Thiourea
B-Iminoazolyl-4-Ethylamine see Histamine
Iminodiphenyl see Diphenylimide
Immedial: General Dyestuff Corp., N.Y.C., sulfur dye.
Immersatherm: Mercoid Corp., Chicago, Ill., control.
Immersol: Nyanza Color & Chem. Co., N.Y.C., tex. wetting agent.
Imo: De Laval Steam Turbine Co., Trenton, N. J., rotary pumps.
Imp: Imperial Prods. Co., Phila., Pa., glosses.
Imp Mill: Combustion Engineering-Superheating, Inc., Chicago, Ill., pulverizer.
Impregnole: Sun Chemical Corp., L. I. C., N. Y., water repellent.
Imperial Green see Copper Acetoarsenite.
Red see Iron Oxide Red
Impermex: Baroid Sales Div., Nat'l Lead Co., Los Angeles, Calif., organic colloid.
Impervite: General Ceramics & Steatite Corp., Keasbey, N. J., impregnated graphite.
Implenal: General Dyestuff Corp., N. Y. C., leather tanning asst.
"Imp-O-Lube": Impoil Co., Inc., Jersey City, N.J., colloidal graphited oil.
IMPREGNATING APPARATUS 666
IMPREGNATING Plastics see Plastics Impregnating also Impregnating Solutions
SOLUTIONS 538
Impregnole: Warwick Chem Co., W. Warwick, R.I., water repellents.
Impruvol 20: Koppers Co., Inc., Pittsburgh, Pa., inhibitor.
Inceloid: Am. Prods. Mfg. Co., New Orleans, impreg. compds.
INCINERATORS, ROTARY KILNS 666
Inco: International Nickel Co., Inc., N. Y. C., nickel.
Incomparable: Reade Mfg. Co., Jersey City, N. J., soldering fluids.
INCUBATORS 666
Indaco: Industrial Adhesive Co., Dallas, Tex., glues, gums.
INDALONE 259
Indalone: U.S. Industrial Chems. Inc., N. Y. C., insectifuge.
Indanthrene: Gen'l Dyestuff Corp., Inc., N.Y.C., vat dye.
Indelible Ink: see Ink Indelible
Indem: Kearney Mfg. Co., Kearney, N.Y., emulsifiers.
Indene see Paracoumarone
Indian Balsam see Balsam Peruvian
Indian Gum see Gum Karaya
Red see Iron Oxide Red
Saffron see Turmeric
INDICATORS ANALYTICAL 259
DEW POINT 666
DRY MATERIAL LEVEL 666
INDIGO 259
Indigolite: Jacques Wolf & Co., Passaic, N. J., discharge agent.
INDIUM (the metal) 259
OXIDE 260
SULFATE 260
Indo: Harry C. Smith Co., Memphis, Tenn., gum shellac.
Indo Carbon: General Dyestuff Corp., N.Y.C., sulfur dye.
Indocene: Indoil Chem. Co., Chicago, Ill., aromatic solvents.
Indocyanine: General Dyestuff Corp., N. Y. C., acid dye.
Indoine: General Dyestuff Corp., N.Y.C., direct dye.
INDOLE 260
Indonex: Indoil Chem. Co., Chicago, Ill., rubber plasticisers.
Indopol: Indoil Chem. Co., Chicago, Ill., poly butenes.
Indor: Penn Salt Mfg. Co., Phila., fly spray.
Indosol: Harry C. Smith Co., Memphis, Tenn., proprietary solvent.
Indralatum: Industrial Raw Materials Corp., N.Y.C., paraffin wax substitutes.
Indubond: Chase Driers & Chems. Div., Pittsburgh, Pa., linings.
Induline: General Dyestuff Corp., N.Y.C., basic dye.
Industrialair: Joy Mfg. Co., Pittsburgh, Pa., air compressor.
Inferno: Goodall Rubber Co. Inc., Trenton, N. J., steam hose.
Infrax: Carborundum Co., Perth Amboy, N. J.
Infusite: United Clay Mines Corp., Trenton, N.J., pwdr. fire clay.
Infusorial Earth see Diatomaceous Earth
Ingham Pumice: La Rue Axtell Pumice Co., abrasive for detergents.
Ingresene: Apex Chem. Co., N.Y.C., textl & leath. penetrant.
Inhecial: Ruberoid Co., N.Y.C., asbestos pile covering.
Inhibac: Chemical Corp., Springfield, Mass., detergents.
INHALATORS 666
Inhex: Patek & Co., San Fran., dry-clean, pre-spotter.
INHIBITORS CORROSION 538
FOAM 538
GASOLINE 539
POLYMERIZATION 539
Initial Line: S. B. Penick & Co., N.Y.C., botanical drugs.

INKS

Inkodors: Sindar Corp., N. Y. C., odors for printing ink.
Ink-Off: Krayer Mfg. Co., Inc., Elizabeth, N. J., waterless cleaner.
Inkowax: General Wax Refining Co., N.Y.C., printing ink substitute.
INK REMOVERS 539
INKS BAG 539
BLOCK PRINTING 539
BURNISHING 539
CARTON 539
CELLULOSE MARKING 539
DRAWING 539
INKS (cont'd)
DUPLICATOR 539
GLASS ETCHING 539
HOT WAX 539
INDELIBLE 539
MARKING 539
METAL STAMP 539
METALLIC 539
PARCHMENT 539
POSTERS AND SIGN 539
PRINTING AND LITHOGRAPHING 539
ROTOGRAVURE 540
SILK SCREEN 540
SOAP WRAPPER 540
STAMPING 540
STENCIL 540
TYPEWRITER RIBBON 540
Inner-Wall: Commercial Research Lab. Inc., Detroit, Mich., flowmeters.
INOSITOL 240
Inputrol: Wheelco Instruments Co., Chicago, Ill., electric import controller.
Inso-Lute: Sauereisen Cements Co., Pittsburgh, Pa., porcelain cement.
Insecti-oil: Penn. Refining Co., Butler, Pa., hydrocarbon oil.
INSECT REPELLENTS 540
Wax see Wax Chinese and Wax Japan
INSECTICIDE Activators see Activators Insecticide
BASES 540
BASES SYNTHETIC 541
CONCENTRATES, SYNTHETIC 541
INSECTICIDES, FARM 541
GARDEN 543
HOUSEHOLD 543
ORCHARD 544
Perfumes see Perfumes Insecticide
Soaps see Soaps Insecticide
INSECTIFUGES 544
Insonite: Tamms Silica Co., Chicago, Ill., mill white.
Inso-Wite: Tamms Industries Inc., Chicago, Ill., cold waterpaint.
Instagraph: Bristol Co., Waterbury, Conn., electronic recorder.
INSTRUMENTS, OPTICAL 666
TESTING 666
Instru-Mount: Eberbach & Son Co. Inc., Ann Arbor, Mich., instrument base.
Insulaf: Quigley Co., Inc., N. Y. C., insulating cement.
INSULATING COMPOUNDS, ELECTRICAL 544
Fillers see Fillers Insulating
Paints see Paints Insulating
Pitch see Pitch Insulating
Varnishes see Varnishes Insulating
Wax see Waxes Insulating
INSULATING MATERIALS, ELECTRIC 666
INSULATING MATERIALS, HEAT 666
Insulbond: Quigley Co., Inc., N. Y. C., insulating cement.
INSULATION MATERIALS 544
Insulbond: Chase Driers & Chems. Div., Pittsburgh, Pa., coatings.
Insulbrix: Quigley Co., Inc., N.Y.C., insulating fire brick.
Insulcrete: Quigley Co., Inc., N.Y.C., light-weight insulating material.
Insulectra: Toch Bros., N.Y.C., insulat. paint.
Insul-Mort: Walsh Refractories Corp., St. Louis, Mo., high cement.
Insultine: Reardon Industries, Cincinnati, O., powdered insulations.
Insurok: Richardson Co., Melrose Park, Ill., laminated plastics.
Intan: Planetary Chemical Co., Creve Coeur, Mo., syn. tanning agent.
Intawax: International Wax Refg Corp., B'klyn, N.Y., carnauba substt.
Inten-Cement: Harron Chem. Co., Jersey City, N. J., concrete hardener.
"Interjoint": Scientific Glass Apparatus Co., Inc., Bloomfield, N.J., interchangeable glassware.
INTERMEDIATES 260
"International": Republic Metals Co., B'klyn, N.Y., acid core solder.
Interplane: Allis-Chalmers, Milwaukee, Wisc., grinders.
Interwoven: The Cambridge Wire Cloth Co., Cambridge, Md., wire belting.
Intracols: Synthetic Chemicals Inc., Paterson, N. J., softeners.
Intrals: Synthetic Chemicals Inc., Paterson, N. J., dispersing agts.
Intramine: Synthetic Chemicals Inc., Paterson, N. J., syn. detergent.
Intrasol: General Dyestuff Corp., N.Y.C., water softening agent.
INULIN 262
INVERTASE 263
Iodase: Greenville Chem. Co., Greenville, S. C., iodine stain remover.
Iodeikon: Mallinckrodt Chem. Works, St. Louis, Mo., gall bladder diagnosis.
IODINE 263
MONOCHLORIDE 263
TRICHLORIDE 263
Iodistol see Thymol Iodide
IODOBENZENE 263
Iodobutane see n-Butyl Iodide
IODOFORM 263
1-Iodohexane see n-Hexyl Iodide
Iodohydromol see Thymol Iodide
Iodomethane see Methyl Iodide
Iodopentane see Amyl Iodide Normal
Iodosol see Thymol Iodide
Iodum see Iodine
Ioflow: Mallinckrodt Chem. Wks., St. Louis, potash iodide.
Iomag: Mallinckrodt Chemical Works, St. Louis, Mo., potash iodide & magnesium carbonate
Ionac: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., ion exchange resins.
Ionol®: Shell Chemical Corp., N.Y.C., anti-oxidant.
IONONE 263
Iosol see Thymol Iodide
Iothymol see Thymol Iodide
Ipco: Industrial Products Co., Philadephia, Pa.
IPECAC ROOT 263
Ipecacuanha see Ipecac Root
Iralia: Firmenich & Co., N. Y. C., iris-violet perfume ionones.
Iralliа: Firmenich & Co., N. Y. C., methyl ionone.
Irecoite: International Rustproof Corp., Cleveland, O., coating.
Ireo-Ising: International Rust Proof Corp., Cleveland, O., zinc phosphate treatment.
Ireo-Seal: International Rust Proof Corp., Cleveland, O., coating.
Ireolene: International Rust Proof Corp., Cleveland, O., rustproofing oils.

Irexsol: International Rust Proof Corp., Cleveland, O., glass cleaner.
***Irga:** Geigy Co., N.Y.C., coal-tar dyes.
Irgatan: Geigy Co., N.Y.C., synth. tan and bleach.
IRIDIUM (the metal) 262
Iriah Moss see **Moss Irish**
Irisol: General Dyestuff Corp., N. Y. C., acid dye.
Irisone: Givaudan-Delawanna, Inc., N. Y. C., ionone.
Irmalite: Berry Asphalt Co., Magnolia, Ark., road oils.

IRON

Iron Bound: Slomons Labs., Inc., L. I. City, N. Y., rubber to metal cement.
IRON see also **Filings** 263
& AMMONIUM CITRATE 264
AMMONIUM OXALATE 264
& AMMONIUM SULFATE see also **Ferrous Ammonium Sulfate** 264
Acetate see Ferric Acetate
Acetate Liquor see Ferrous Acetate Solution
Chloride see Ferric Chloride and Ferrous Chloride
Chromate see Ferric Chromate
CITRATE 264
Dichloride see Ferrous Chloride
Dichromate see Ferric Bichromate
Ethiops: see **Iron Oxide**
Filings see Filings Iron and Steel
Fluoride see Ferric Fluoride
FORMATE 264
Glue: McCormick & Co., Balto., fish glue.
Gluconate see Ferrous Gluconate
GLYCEROPHOSPHATE 264
Hydrate see Ferric Hydroxide
Hydroxide see Ferric Hydroxide
Hypophosphite see Ferric Hypophosphite
Liquor see Ferrous Acetate Solution
Monosulfide see Ferrous Sulfide
NAPHTHENATE 264
Nitrate see Ferric Nitrate
Oleate see Ferric Oleate
Oxalate see Ferric Oxalate
OXALATE GRANULAR 264
OXIDE 264
OXIDE, BROWN 264
OXIDE, RED 265
OXIDE, YELLOW 265
PENTACARBONYL 265
Perchloride see Ferric Chloride
Powder see Metals Powder
Protochloride see Ferrous Chloride
Protosulfide see Ferrous Sulfide
PHOSPHATE see also **Ferric Phosphate** 265
& POTASSIUM OXALATE 266
Pyrites see Pyrites
PYROPHOSPHATE 266
Reduced see Iron
RESINATE 266
Saffron see Iron Oxide Red
Sesquichloride see Ferric Chloride
Sesquioxide see Iron Oxide Red
Sesquioxide Hydrated see **Ferric Hydroxide**
Sesquisulfate see Ferric Sulfate
& SODIUM OXALATE 266
STEARATE 266
Subcarbonate see Iron Oxide Brown
Sulfate see Ferrous Sulfate and **Ferric Sulfate**
Sulfide see Ferrous Sulfide
Sulfuret see Ferrous Sulfide
Tersulfate see Ferric Sulfate
Trichloride see Ferric Chloride
Vitriol see Ferrous Sulfate
Iron-Cote: Sullivan Co., Memphis, Tenn., floor hardener.
Ironhide: Pittsburgh Plate Glass Co., Pittsburgh, Pa., metal paint.
Ironized Compound: Sullivan Co., Memphis, Tenn., waterproofing compd.
Irox: Reichard-Coulston Inc. N.Y.C., iron oxide pigments.
Irvinite: Western Soap & Sales Co., Spokane, Wash., cleaning comps.
Isco: Innis, Speiden & Co., N.Y.C., indust. chems., waxes, alkalies.
Isochrome: Innis, Speiden & Co., N.Y.C., soil fumigant.
Isomist: Innis, Speiden & Co., N.Y.C., aerosol bombs.
Isomister: Innis, Speiden & Co., N.Y.C., aerosol applicator.
ISINGLASS 266
Isoamyl Acetate see Amyl Acetate
ISOAMYL ACID PYROPHOSPHATE 266
Iso Beeswax: Amer. Cyanamid Co., N. Y. C., waxes.
Benzoic Ester see Amyl Benzoate
Butyrate see Amyl Butyrate
Butyric Ester see Amyl Butyrate
Choride see Amyl Choride
Formate see Amyl Formate
Nitrite see Amyl Nitrate
Oxide see Amyl Ether

ISOBUTYL

ISOBORNYL ACETATE 266
ISOBUTANE 266
ISOBUTYL ACETATE 266
p-AMINOBENZOATE 266
Alcohol see Alcohol Isobutyl
BENZOATE 266
BROMIDE 266
BUTYRATE 266
CAPROATE 266
Carbinol see Alcohol Amyl
ISO BUTYRATE 266
METHACRYLATE 266
PROPIONATE 266
SALICYLATE 266
ISOBUTYLENE 266
ISOBUTYRALDEHYDE 266
Iso Caryogenol: Antoine Chiris Co., N.Y.C., perfume fixative.
Isocel: Attapulgus Clay Co., Phila., Pa., isomerization catalyst.
ISOEUGENOL 266
Iso Gum: Quaker Chem. Prods. Corp., Conshohocken, Pa., text. stiffener
ISOHEPTANE 267
ISOHEPTENE 267
ISOHEXANE 267
Iso-Iodeikon: Mallinckrodt Chem. Works, St. Louis, Mo., gall bladder & liver diagnosis.
Isoindoledione see Phthalimide
Iso-iodopentane see Amyl Iodide, Iso
Iso-Lan: Goldschmidt Chem. Corp., N. Y. C., absorption base.
Isolene: Nat'l Rosin Oil Prods Co., N.Y.C., rosin product.
ISOLEUCINE 267
Isoline: Woburn-Fleming Sales Division, N. Y. C., dehydrated castor oil.
Isomylic see Amyl Oxide
Isonaphthol see Beta-Naphthol
ISOOCTANE 267
ISOOCTENE 267
ISO-PENTANE 267
ISOPHORONE 267
ISOPRENE 267
Iso-propanol see Alcohol Isopropyl
Isopropyl Acid Prophosphate

ISOPROPYL

ISOPROPYL ACETATE 267
Alcohol see Alcohol Isopropyl
AMINE 267
BENZENE 267
ISOPROPYL BROMIDE 267
Carbinol see Alcohol Isobutyl
CHLORIDE 267
o-Cresol see Carvacrol
2,4-DICHLOROPHENOXYACETATE 267
Ideneacetone see Mesityl Oxide
Metacresol see Thymol
Toluene see Cymene
Toluol see Cymene
Ether see Ether Isopropyl
FORMATE 267
IODIDE 267
LAURATE 267
PALMITATE 267
PHENOL 267
n-PHENYL CARBAMATE 267
2,4,5-TRICHLOROPHENOXYACETATE 268
p,p-ISOPROPYLIDENE BISPHENOL 267
ISOQUINOLINE 267
Isosolvent: James Bute Co., Houston, Texas, industrial alcohol.
Isothane: Onyx Oil & Chem. Co., Jersey City, N. J., fungicide.
ISOVALERYLALDEHYDE 268
Isotox: (Ortho) California Spray-Chemical Corp., Richmond, Calif., hexachloroeyclohexane.
Italian Red see Iron Oxide, Red
ITANCONIC ANHYDRIDE 268
Ivory: Procter & Gamble, N.Y.C., stearic acid.

J

J Acid see **Acid J**
JCX: Advance Solvents & Chem. Corp., N.Y., stabilizer.
J. M.: Paisley Prods., Inc., Chicago, Ill., stripping glue.
JMH: J. M. Huber Corp., N.Y.C., peptizer.
Jack: Zip Abrasive Co., Cleveland., Ohio, dissolving agent.
JACKETS, LABORATORY HEATING 666
Jack Frost: McKay Chem. Co., Inc., B'klyn, N.Y., glass etching comp.
Jacklift: Lewis Shepard Prods. Inc., Watertown, Mass., lift trucks.
Jackstacker: Lewis Shepard Prods., Inc., Watertown, Mass., trucks.
Jacktractor: Lewis Shepard Prods., Inc., Watertown, Mass., electric-tiering trucks.
Janus: General Dyestuff Corp., N.Y.C., basic dye.
Janusols: Synthetic Chemicals Inc., Paterson, N. J., dispersing agts.
Japagloss: Zapon Div., Atlas Powder Co., Stamford, Conn., finishes and lacquers.
Japan Camphor see **Camphor**
Colors see **Colors Japan**
Earth see **Cutch**
Fish Oil see **Oil Sardine**
Isinglass see **Agar**
Tallow see **Wax Japan**
Japanese Gelatin see **Agar**
JAPANS 544
Japanyl: Fritzsche Bros. Inc., N. Y. C., perfume compd.
Jasmanthia: Firmenich & Co., N. Y. C., jasmin specialty.
Jasmia: Fritzsche Bros. Inc., N. Y. C., syn. jasmine base.
Jasmin: Firmenich & Co., N. Y. C., jasmine fragrance.
Jasmonis: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Jasmophore: Firmenich & Co., N. Y. C., jasmine perfume.
Jasolea: Fritzsche Bros. Inc., N. Y. C., syn. jasmine base.
Jaune Brilliant see **Cadmium Sulfide**
De Mars see **Iron Oxide Yellow**
Javelle Water see Sodium Hypochlorite
Javollal: Fritzsche Bros. Inc., N. Y. C., oil citronella substitute.
Jebcolac: J. E. Bauer Co., Los Angeles, Calif., cement floor enamel.
Jeffery: L. W. Ferdinand & Co., Inc., Newton Lower Falls, Mass., marine glue.
Jeffilac: Horn, Jeffreys & Co., Burbank, Calif., nitrocellulose solutions.
Jel-Aid: Warwick Chem. Co., Long Is. City, N. Y., gelling comp.
Jellitac: Arthur S. Hoyt Co., Inc., N. Y. C., wheat paste and wall size.
Jelutong see **Gum Pontianak**
Jennings: Nash Engineering Co, So. Norwalk, Conn., pumps.
Jerale MM&R: Magnus, Mabee & Reynard, Inc., N. Y. C., citronella oil replacement.
Jesuit's Balsam see **Balsam Copaiba**
Jet Black see **Carbon Black**

Jet-Air: Morse Brothers Machinery Co., Denver, Colo., flotation machines.
Jethlak: Ruberoid Co., N.Y.C., plastic cement.
Jetseto: Watson-Standard Co., Pittsburgh, Pa., metal coatings.
Jetuft: Eston Chemicals, Inc., Los Angeles, Calif., household deodorant.
Jetveyer: Brady Conveyors Corp., Chicago, Ill.
Jev: Vejin Inc., Cincinnati, O., butter concentrates.
Jew's Pitch see **Asphaltum**
Jeweler's Enamels see **Enamels Jewelers' Rouge** see **Iron Oxide Red**
Jiffix: Mallinckrodt Chem. Works, St. Louis, Mo., fixing bath.
Jimp: Schuylkill Chemical Co., Philadelphia, Pa., agric. foliage spray.
Jix: Vejin Inc., Cincinnati, O., imitation butter flavor.
JOINTING COMPOUNDS 544
JOINTS, EXPANSION 666
"Jomko": Republic Metals Co., B'klyn, N.Y., babbitt metal.
Jonkinis: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Jorco: Jordan Co., Chicago, Ill., galvanizing salts.
Jo-Sil: Pittsburgh Plate Glass Co., Pittsburgh, Pa., hydrated silica.
Juby: B. F. Gump Co., Chicago, Ill., sieve drives.
Judean Pitch see **Asphaltum**
Juniper Gum see **Gum Sandarac**
Jupiter Gum: Paisley Prods. Inc., Chicago, Ill., dextrine adhesive.
Jurnapak: Esso Standard Oil Co., N. Y. C., wool yarn lubricant.

K

K-31: Keystone Filler & Mfg. Co., Muncy, Pa., carbonaceous shale.
K-37: Wyandotte Chems. Corp., Wyandotte, Mich., laundry detergent.
K 440: Binney & Smith Co., N.Y.C., drop black.
K-1170: Armour & Co., Chgo., insulation matls., flotation retardant.
K-Brand: Owens-Illinois Glass Co., Toledo, O., glassware.
K B: Avoset Co., Phila., Pa., casein.
K-B: Kehew-Bradley Co., Boston, Mass., neatsfoot oil.
K-B: Knefler-Bates Co., Indianapolis, Ind., core binder.
KD-2: A. P. Green Fire Brick, Mexico, Mo., refractory mortar.
K-F.: Kay-Fries Chemicals, Inc., N. Y. C., organic chemicals.
K.M.C. Duplicating Fluid: Krayer Mfg Co., Inc., Elizabeth, N. J., duplicating fluid.
KNI: Bowers Printing Ink Co., Chicago, Ill., lithographing plate preservative.
"K-O": Impoll Co., Inc., Jersey City, N.J., fire extinguisher fluid.

KP-23: Ohio-Apex, Inc., Nitro, W. Va. — Nitro 152

Butoxy Ethyl Stearate. This ester is often used in addition to other plasticizers to impart some special property. It is similar in many respects to butyl stearate but has a higher boiling point, higher solvent power and lower freezing point. KP-23 freezes at 18°C. to 17°C. Boiling range @ 4mm., 215°C. to 250°C.

KP-140: Ohio-Apex, Inc., Nitro, W. Va. — Nitro 152

Tributoxy Ethyl Phosphate. One of the more valuable alkyl phosphates. Makes elastic and permanent plastics. Imparts extreme low temperature flexibility, and it is flame retardant. Has found special favor as a plasticizer for Neoprene and Hycar. Excellent as a softener. Freezing point—70°C. (very viscous liquid). Boiling range 200°C. to 232°C. @ 4 mm.

KP-150: Ohio-Apex, Inc., Nitro, W. Va. — Nitro 152

Fatty, phthalic acid esters. An excellent plasticizer for nitrocellulose, polyvinyl resins, etc. Recommended for good hand, low temperature flexibility, low water extraction and resistance to ultra-violet light. Boiling range @ 4 mm. 170°C. to 215°C. Freezing point—30°C.

KP: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., road tar.
KVS: Kuckro Waterproofing Corp, N. Y. C., waterproofing.
Kadaya see Gum Karaya
Kadmols: Universal Paint & Varnish Co., Cleveland, Ohio, paint.
Kadox: N. J. Zinc Co., N.Y.C., zinc oxide.
Kaiser Green see Copper Acetoarsenite
Kal: Kali Mfg. Co., Phila., Pa., cleaners.
Kal Kling: Sterling Paint & Varnish Co., Malden, Mass.
Kalamine S-3: Kali Mfg. Co., Phila., Pa., cation softener.
Kalepon: Kali. Mfg. Co., Phila., Pa., scouring agent.
Kalex: Agkem, Inc., Quincy, Ill., rotenone-copper dust.
Kalilange see Potassium Hydroxide
Kalite: Agkem, Inc., Quincy, Ill., plant insecticide.
Kalite: Diamond Alkali Co., Cleveland, Ohio, calcium carbonate.
Kalium see Potassium
Kalon: Hercules Kalon Co. Inc., Boston, Mass., soap powder.
Kalsolite: Tamms Silica Co., Chgo., Ill., kalsomine.
KALSOMINES 544
Kalsopake: J. E. Bauer Co., Los Angeles, Calif., wall paint.
Kalve A: Rumford Chem. Wks., Rumford, R.I., metal cleaning comp.
Kal-Zoo: Parsons Chemical Wks., Grand Ledge, Mich., insecticides.
Kam: Westvaco Chem. Corp., N. Y. C., bottle wash. compd.
Kamatik: Will Corp., Rochester, N. Y., hot plates.
Kandar: Naugatuck Chem. Div., U. S. Rubber Co., N. Y. C., textile resin.
Kant Klog: Geo. B. Robbins Disinfectant Co., Inc., drain pipe cleaner.
Kantfray: H. I. Thompson Co., Los Angeles, Calif., sealant.
Kant-Leak: Sullivan Co., Memphis, Tenn., coatings & cements.
Kaolex: J. M. Huber Corp., N. Y. C., clay (adhesive).
Kaolin see China Clay
Kaoloid: H. N. Richards Co., Trenton, N.J., clay .
Kaoloid: Thompson-Weinman & Co., N. Y. C., filler clay.
KAPOK 268
Kapsol: Ohio-Apex Inc., Nitro, W. Va., plasticizer.
Karagami: Concord Chem. Co., Phila., Pa., Japan wax.
Karaya Gum see **Gum Karaya**
Karbate: National Carbon Co., Inc., N. Y. C., pipes.
Karbol: L. Sonneborn Sons, N.Y.C., wood preserv.
Kasene: Amer-Marietta Co., Seattle, Wash., glues.
Kasil: Phila. Quartz Co., Phila., Pa., potassium silicate.
Kaskade: Koch Engineering Co., Inc., Wichita, Kan., distilling equipt.
Kast-O-Lite: A. P. Green Fire Brick, Mexico, Mo., insul. refractory castable.
Kast-Set: A. P. Green Fire Brick, Mexico, Mo., refractory castable.
Katanol: General Dyestuff Corp., N.Y.C., mordant dye agent.
Katapol: General Dyestuff Corp., N.Y.C., cationic detergent.
Katchung Oil see Oil Peanut
Katechu see **Cutch**
Kathon: Rohm & Haas Co., Phila., Pa., weed killer.
Katigen: Gen'l Dyestuff Corp., N.Y.C., sulfur dye.
Katosyme: Takamine Lab., Inc., Clifton, N.J., desizing comp.
Kaukit: L. Sonneborn Sons, N.Y.C., caulking comp.
Kauri Resin see **Gum Kauri**
Kaurie see **Gum Kauri** see also **Gum Copal**
Kaydol: L. Sonneborn Sons, Inc, N.Y.C., **mineral oil, White, U.S.P.**
Kay-Flex: McKay Chem. Co., Inc., B'klyn, N.Y., acid-proof coating.
Kaylo: Owens-Illinois Glass Co., Toledo, O., insulating material, heat.
Kaymel Series: Kraft Chem. Co., Chicago, Ill., emulsifiers.
Kaytone: Kay-Fries Chemicals, Inc., N. Y. C., fumigant.
Ke-Cide: Kelite Prods. Inc., Los Angeles, Calif., quaternary ammonium comp.
Kece: Kerner Chem. Co., Phila., Pa., disinfectants.
Keego: Wyandotte Chems. Corp., Wyandotte, Mich., dishwashing compound.
Kelcoloid: Kelco Co., N. Y. C., algin.
Kelcosol: Kelco Co., N. Y. C., algin.
Kelene see **Ethyl Chloride**
Kelgin: Kelco Co., N.Y.C., algin.
Kelgum: Kelco Co., N.Y.C., algin.
Kelite: Diamond Alkali Co., Pure Calcium Prods. Div., precip. calcium carbonate.
"Kelley": Oliver United Filter Inc., N.Y.C., pressure filter.
Kelly Island: Cutler-Magner Co., Duluth, Minn., construction lime.
Kelmar: Kelco Co., N. Y. C., algin.
Kelohydroxyestrin see **Menformon**
Keltex: Kelco Co., N.Y.C., algin.
Keltose: Kelco Co., N. Y. C., algin.
Kem: Sherwin-Williams Co., Chicago, Ill., paints.
Kem Glo: Sherwin-Williams Co., Chicago, Ill., household enamel.
Kem Tone: Sherwin-Williams Co., Chicago, Ill., resin-emulsion wall paint.
Kemblu: Kem Labs., Bronx, N.Y., laundry blue.
Kembreak: Milwhite Co., Houston, Texas, lignin sulfonate.
Kemicide: Kemiko Mfg. Co., Irvington, N. J., insecticides.
Kemick: American Chemical Paint Co., Ambler, Pa., heat resisting paint.
Kemidol: U.S. Gypsum Co., Chgo., agri. lime.
Kemifectant: Kemiko Mfg. Co., Irvington, N. J., disinfectant.
Kemikal: U.S. Gypsum Co., Chgo., chem. lime.
Kemi-Kal: Sullivan Co., Memphis, Tenn., surface hardener.
Kemikleen: Kemiko Mfg. Co., Irvington, N. J., bowl cleaner.
Kemilime: Ash Grove Lime & Portland Cement Co., Kansas City, Mo., calcium lime.
Keminate: Kem Labs., Bronx, N. Y., penetrant.
Keminole: Kem Labs., Bronx, N. Y., alkali buffer.
Kemipine: Kemiko Mfg. Co., Irvington, N. J., disinfectant.
Kemloid: Colloids Inc., Newark, N. J., textile finish.
Kemo: Kem Labs., Bronx, N.Y., silicated compounds.
Kemo asphalt: Electro-Chemical Supply & Engineering Co., Emmaus, Pa., membrane.
Kemox: Sika Chemical Corp., Passaic, N.J., waterproofing compound.
Kemrock: Kewaunee Mfg. Co., Adrian, Mich., tops.
Kemsolene: Amer. Mineral Spirits Co., N. Y. C., paint.
Kemsuds: Chemical Corp., Springfield, Mass., powdered hand soap.
Kemtex: W. D. MacDermot Chemical Co., Bristol, Conn., alkali cleaners.
Kem-Tex: Rogers Chemical Corp., Detroit, Mich., oil paints.
Kemulsion Bases: Kem Prods. Co. Inc., Newark, N. J., emulsifying agts.
Kenite: Gilbreath Chem Co., San Fran., Calif., wood preservatives.
Ken-O-Kal: Mitchell Fels, Phila., Pa., synthetic soap.
Ken-Tone: W. W. Lawrence & Co., Pittsburgh, Pa., wall paint.
Kepaline: Kepec Chem. Corp., Milwaukee, Wisc., adhesives.
Kepeco: Kepec Chem. Corp., Milwaukee, Wis., leather finishes.
Kepolac: Kepec Chem. Corp., Milwaukee, Wis., coatings.
Kepolene: Kepec Chem Corp., Milwaukee, Wis., adhesives.
KERATIN 268
Keratol: Fiber Chemical Corp., Cliffwood, N.J., protective colloid.
Kerex: Felton Chem. Co., Inc., Bklyn, N.Y., industrial perfumes.
Kerocaine see **Procaine Hydrochloride**
Kerodor: Givaudan-Delawanna, Inc., N.Y.C., odor for flysprays.
Kerosceni: Givaudan-Delawanna, Inc., N. Y. C., odor for flysprays.
Kessco Products: Kessler Chem. Co., Inc., Philadelphia, Pa., var., chem. & chem. specs.
Kesterole G: Kraft Chem. Co., Chicago, Ill., plasticizer.
Ketohexamethylene see Cyclohexanone
Ketol see Indole
Ketones see Acetone; Methyl Acetone; Methyl n— Amyl Ketone; Methyl Isobutyl Ketone, etc.
Ketonone: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., plasticizers.
Ketopropane see **Acetone**

KETTLES

KETTLES, ACETYLATING 666
AGITATING 666
ALUMINUM 666
BRASS 666
CAST IRON 666
CAUSTIC 667
CHROME NICKEL STEEL 667
COPPER 667
CRYSTALLIZING 667
ELECTRICALLY HEATED 667
GLASS ENAMELED 667
JACKETED 667
MIXING 667
MONEL METAL & NICKEL 667
NITRATING 668

KETTLES (cont'd)
- OIL-JACKETED — 668
- PORCELAIN — 668
- SILVER — 668
- SOAP — 668
- STEAM-JACKETED — 668
- STEEL — 668
- STONEWARE — 668
- SULFONATING — 668
- VACUUM — 668
- VARNISH — 668

Key Brand: Felton Chemical Co., B'klyn, N.Y., citrus essential oils.
Keyspray: Keystone Chem. Co., Cleveland, O., insecticide.
Keystone: Amer. Agric. Chem. Co., N.Y.C., ammonium carbonate.
Keystone: Hardinge Co., Inc., York, Pa., lime kilns.
Keystone: H. N. Richards Co., Trenton, N.J., calcium carbonate.
Keystone: Thompson-Weinman & Co., N. Y. C., calcium carbonate extender.
Kidney: National Rosin Oil Prods., Inc., N. Y. C., rosin product.
Kieserite see Magnesium Sulfate
Kierole: Warwick Chem. Co., Long Is. City, N. Y., kier assistant.
Kieselguhr see Diatomaceous Earth
Kilane: Parsons Chem. Works, Grand Lodge, Mich., pest destroyer.
Kilice: Sherwin-Williams Co., Cleveland, cattle spray.
Killeen see Moss Irish
Kill-Qwick: Green Line Chem. Corp., St. Louis, Mo., insecticide.
Kill-tox: Veith Chem. Co., Fresno, Calif., weed killers.

KILNS, CEMENT & LIME — 668
KILNS ROTARY — 668

Kime: Geo. B. Robbins Disinfectant Co., Inc., Cambridge, Mass., disinfectant.
King-Clip: Lunkenheimer Co., Cincinnati, O., gate valve.
Kingol: Standard Chem. Co., Phila., Pa., pine disinfectant.
King's Blue see Cobalt Blue and Smalt
Green see Copper Acetoarsenite
Yellow see Arsenic Sulfide Yellow

KJELDAHL APPARATUS — 668

Klarifiant: The Dubois Co., Cincinnati, O., spray booth comp.
Kleanrol: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., soldering flux.
Klean-Wax: Elkay Prods. Co., N. Y. C., wax remover.
Klearene: Carlton Chemical Co., Inc., N. Y. C., dishwashing detergent.
Klearol: L. Sonneborn Sons, N.Y.C., **Mineral oil, White**
Klearol-White: L. Sonneborn Sons, N.Y.C., metal polish base.
Klee Sealant: Amer. Flurent Co., Inc., Cincinnati, O., sealing composition.
Kleen Air: Kaye & MacDonald, Inc., filters.
Kleen-Aid: Research Products Co., Ltd., Huntington Park, Calif., degreasing agents.
Kleenadrain: U. S. Sanitary Specialties Corp., Chicago, Ill., drain pipe cleaner.
Kleen-All: Krayer Mfg. Co., Inc., Elizabeth, N. J., cleansing cream.
Kleen-All: National Chemical Co., Los Angeles, Calif., metal cleaner.
Kleen-Brite: Dixie Disinfecting Co., Dallas, Texas, floor cleaner wax.
Kleenflo: L. A. Salomon & Bro., N.Y.C., activated clay.
Kleen-Foam: Allen Burns Co., Buffalo, N. Y., rug cleaner.
Kleen-Heat: Park Chemical Co., Detroit, Mich., cyanide mixture.
Kleen Klog: Kemiko Mfg Co., Irvington, N. J., drain pipe cleaner.
Kleen-Kote: National Casein Co., Chicago, Ill., resin emulsion paint.
Kleensolv: Porter Paint Co., Cortland, N. Y., cleaning thinner.
Kleenup: (Ortho) California Spray-Chemical Corp., Richmond, Calif., dormant oil emulsion.
Kleenwell: Chicago Sanitary Prods. Co., Chicago, Ill., soap prods.
Kleenz: Braden Sutphin Ink Co., Cleveland, O., hand cleaner.
Kleer: Damon Chemical Co., Inc., Alliance, Ohio, glass cleaner.
Kleerite: Amer. Writing Ink Co., Inc., Boston, Mass.
Klenarin: Fiber Chemical Corp., Cliffwood, N.J., degreasing agent.
Klenezines: Pennsylvania Dyestuffs Co., Inc., Philadelphia, Pa., laundry soap compounds.
Klenzol: Fisher Scientific Co., Ptsbgh., lab. cleaner.
Kleracid: Wyandotte Chems. Corp., Wyandotte, Mich., laundry sour.
Klingkoat: Thomson-Porcelite Paint Co., Philadelphia, Pa., cement coating.
Klipper: National Soap & Chem. Co., Minneapolis, Minn., soap powders.
Klondyke: Edgar Brothers Co., Metuchen, N. J., paper filler clay.
Klorex: Whitmoyer Labs., Inc., Myerstown, Penna., disinfectant.
Klor: Nelson Chemicals Corp., Detroit, Mich., liquid bleach.
K-Master: Kaye & MacDonald, Inc., West Orange, N. J., steam & air traps.

KNEADING MACHINERY — 668
KNIFE CUTTERS — 668
CUTTERS HEAVY DUTY — 668

Knight's Patent Zinc White see Lithopone
Knight-Ware: Maurice A. Knight, Akron, Ohio, chemical stoneware.
Knitol: Sherwood Refg. Co. Inc., Englewood, N. J., textile oils.
Knittel: Stephens-Adamson Mfg. Co., Aurora, Ill., ring-type crushers.

KNIVES, SCRAPING — 669

Kno-draft: W. B. Connor Engng. Corp., N. Y. C., air diffuser.
Knoxall: Edward H. Best & Co., Boston, Mass., wool filter cloth.
Knox-Out: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., insecticides.
Koalin see Clay China
Kobs: Composition Materials Co., Inc., N. Y. C., ground corn cobs.
Kodalak: Eastman Kodak Co., Rochester, N. Y., clear lacquer.
Kodalk: Eastman Kodak Co., Rochester, N. Y., balanced alkali.
Kodaloid: Eastman Kodak Co., Rochester, N.Y., Celluloid cement
Kodelon: Eastman Kodak Co., Rochester, N. Y., photographic developing agent.
Kohinoor: Imperial Oil & Gas Prods. Co., Ptsbgh., carbon black.
Kokobase: Nopco Chem. Co., Harrison, N.J., potassium laurate soap.
Kol: Du Bois Co., Cincinnati, O., dishwashing comp.
Kolag: Research Products Co., Ltd., Huntington Park, Calif., demulsifiers.
Kold: Niagara Chem. Div. Food Machinery Corp., Middleport, N. Y., fused bentonite sulphur.
Koldpruf: Cities Service Oil Co., Bartlesville, Okla., anti-freeze.
Koldscour: Alrose Chem. Co., Prov., R.I., low temperature scouring.
Kold-Set: Wayne Chemical Products Co., Detroit, Mich., cold solder.
Kolineum: Koppers Co., Pittsburgh, Pa., refined coal-tar creosote.
Kollamine: General Dyestuff Corp., N. Y. C., preventing fiber tendering by aniline black.
Koloc: Naugatuck Chem. Div. U. S. Rubber Co., N. Y. C., textile resin.
Kolofog: Niagara Chem. Div. Food Machinery & Chem. Corp., N.Y.C., fused bentonite sulphur.
Kolscour: Lanatex Chem. Co., Providence, R.I., scouring agent.
Kondor-Kut: Kondor Prods. Corp., Cleveland, O., cutting oils & coolants.
Kondorsol: Kondor Prods. Corp., Cleveland, O., grease sols and removers.
Konrite: Nopco Chemical Co., Harrison, N. J., nylon coning oil.
Konseal: Sullivan Co., Memphis, Tenn., concrete curing compound.
Konset: Sullivan Co., Memphis, Tenn., waterproofing & hardener.
Kontakt: Emery Industries, Inc., Cincinnati, O., fat-splitting reagent.
Kontite: Sullivan Co., Memphis, Tenn., cement paint.
Konte: Tretolite Co., St. Louis, Mo., corrosion inhibitors.
Kopol: Reichhold Chems., Inc., Detroit, Mich., copals.
Kopperklad: Wm. W. Stanley Co., Inc., N. Y. C., filter cloth.
Korafor: Wallerstein Co. Inc., N. Y. C., unhairing agent.
Koraloy: Atlas Mineral Prods Co., Mertztown, Pa., coatings.

KOREON (Basic Chromium Sulfate): Mutual Chemical Company of America, 270 Madison Avenue, New York 16, New York. MUrray Hill 5-9710.

Prepared one-bath chrome tan in fine granular form, readily soluble in warm water. Two grades, **KOREON M and KOREON X,** cover entire range of practicable tanning basicities.

Koresin: Antara Prod., Gen'l Aniline & Film Corp., N. Y. C., rubber tackifier.
Kores: Atlas Mineral Products Co., Mertztown, Pa., acid-proof cement.
Koria: Tretolite Co., St. Louis, Mo., corrosion resistant.
Korite: Research Products Co., Ltd., Huntington Park, Calif., anti-corrosion agents.
Kork-N-Seal: Crown Cork Specialty Corp., Decatur, Ill., caps & nozzles.
Kosmobile: United Carbon Co., Charleston, W. Va., carbon black.
Kosmos: United Carbon Co., Charleston, W. Va., carbon black.
Kotol: Naugatuck Chem. Div. U. S. Rubber Co., N. Y. C., protective coating.
Kover-Kote: Metallurgical Prods. Co., Phila., Pa., flux.
Krak-Stik: Lake Chem. Co., Chicago, Ill., sealing cement.
Kralac: Naugatuck Chem. Div. U. S. Rubber Co., N. Y. C., plastic resin.
Kraywet Series: Kraft Chem. Co., Chicago, Ill., wetting agents.
Kreelon: Gross Drug Co., Harrisburg, Pa., organic detergent.
Kreelon: Wyandotte Chems. Corp., Wyandotte, Mich., syn. detergent.
Kreen: Kano Laboratories, Chicago, Ill., motor tonic.
Kremol: Sherwood Refg. Co. Inc., Englewood, N. J., white mineral oils.
Kremoline: Sherwood Refg. Co. Inc., Englewood, N. J., baker's trough grease.
Kremosol: Central Illinois Labs., Inc., Peoria, Ill., paint cleaner.
Krenite: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., dinitro dormant spray.
Kreosote see Creosote
Kreosote: Barada & Page, Inc., Kansas City, Mo., wood preservative.
Kriegrocine: Krieger Color & Chem. Co., Inc., Los Angeles, Calif., aniline dyes.
Kriegr-O-Dip: Krieger Color & Chem. Co., Inc., Los Angeles, Calif., liquid dip dyes.
Kriegrotex: Krieger Color & Chem. Co., Inc., Los Angeles, Calif., textiles and dyes.
Kristo: Zapon Div., Atlas Powder Co., Stamford, Conn., finishes & lacquers.
Kristokrak: Zapon Div., Atlas Powder Co., Stamford, Conn., finishes & lacquers.
Kriston: B. F. Goodrich Chem. Co., Cleveland, O., thermosetting resins.
Kroil: Kano Laboratories, Chicago, Ill., penetrating oil.
Kromatrol: Will Corp., Rochester, N. Y., photoelectric colorimeter.
Kromfax: Carbide & Carbon Chems. Corp., N. Y. C., solvent.
Kromold: Martin Dennis Co., Newark, N.J., leather impregnator.

KRONISOL: Ohio-Apex, Inc., Nitro, W. Va. Nitro 152

Dibutoxy Ethyl Phthalate. Butoxy Glycol Phthalate. Solvent plasticizers for most resins and very permanent. Recommended for Vinylite and nitrocellulose because of its resistance to light and hydrolysis. Also recommended for cellulose acetobutyrate, cellulose nitrate and ethyl and benzyl cellulose. Boiling range @ 4mm. 210°C. to 233°C. Freezing point—50°C. (very viscous liquid).

KRONITEX: Ohio-Apex, Inc., Nitro, W. Va. Nitro 152

Tricresyl Phosphate. A nearly colorless, neutral, odorless, oily ester. Widely used plasticizer because of its stability and compatibility with many resins. Recommended for Neoprene, Hycar, Ethyl Cellulose and as an additive for extreme pressure lubrication. Has excellent fire retarding properties. Boiling range @ 4mm., 240°C. to 260°C. Freezing point—35°C. (very stiff clear gel).

Kruzite: A. P. Green Fire Brick Co., Mexico, Mo., fire-clay brick.
Kryocide: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., insecticide.
Kryolith see Cryolite Natural

KRYPTON — 248

Krystal Koal: General Cement Mfg. Co., Rickford, Ill., crystallizing lacquer.
Kualatex: Latex Distributors, Inc., N. Y. C., rubber latex.
Kubecide: Miller Chemical Co., Omaha, Nebr., rotenone.
Kubola: Esso Standard Oil Co., N. Y. C., brown soda base, block grease.
Kue-Ken: Penn. Crusher Co., Phila., Pa., jaw crusher.
Kulene: Eaton Chemicals, Inc., Los Angeles, Calif., refrigerant.
Kum Klean: Advance Paint Co., Indianapolis, Ind., hand preservative.
Kupramite: Mine Safety Appliances Co., Ptsbgh., ammonia absorbent for gas masks.
Kurolite: Sterwin Chems. Inc., N. Y. C., flour maturing agt.
Ku-Rusto: Kuehne Chem. Co., Elizabeth, N.J., textile rust remover.
Kut: Quaker Chem. Prods. Corp., Conshohocken, Pa., metal cutting bases.
Kutch see Cutch
Kutwell: Esso Standard Oil Co., N. Y. C., "soluable" cutting oils.
Kwart Kwick: Viking Pump Co., Cedar Falls, Iowa, barrel pump.
Kwick Bleach: Eaton Chem. & Dyestuffs Co., Detroit, Mich., laundry bleach.

Kwick-Kase: Park Chemical Co., Detroit, Mich., cyanide mixture.
Kwikflux: Special Chemicals Corp., N.Y.C., soldering flux.
Kwikseal: Hoekwell Co., W. S., Fairfield, Conn., valves.
Kwik-Rub: Park Chemical Co., Detroit, Mich., rubbing comp.

L

75 LA: E. F. Drew & Co., Inc., N. Y. C., worsted oils.
L-B: Link-Belt Co., Chicago, elevating, conveying and power transmission machinery.
LX-685: Neville Co., Pittsburgh, Pa., oxidizing resin.
Label Pastes see Pastes Label
LABELING MACHINERY 669
Label-Weld: F. G. Findley Co., Milwaukee, Wis., bottle label glue.
LABORATORY APPARATUS AND SUPPLIES 669
FURNITURE 670
Laboratory Cements see Cement Laboratory
Chemicals see Chemicals Analytical
Gases see Gases Laboratory
LaBoar: M. O. Grove & Co., San Fran., Calif., centrifugal pumps.
Lac see Shellac
Lacco: Los Angeles Chem. Co., Los Angeles, Calif., chem. & insecticides.
Lacconite: Los Angeles Chem. Co., Los Angeles, Calif., bleaching clay.
Lacet: Amer. Cyanamid Co., N. Y. C., shrinkage control.
Lackeroff: Porter Paint Co., Cortland, N. Y., liquid hand soap.
Lackersolv: Porter Paint Co., Cortland, N. Y., lacquer thinner.
Lac-O-Nu: Nu Steel Co., Chicago, Ill., furniture polish.
Lac-O-Var: Advance Paint Co., Indianapolis, Ind., top coat.
LACQUER BASES 544
Materials see individual headings such as Acetone; Butyl Acetate; Alcohol; Butyl; Ethyl Acetate; Diethyl Phthalate, etc.
Lacquer Dope see Pyroxylin Solutions

LACQUERS

LACQUERS ALCOHOL RESISTANT 545
AUTOMOTIVE 545
BRUSHING 545
CAN 545
CELLULOSE BASE 545
CLEAR 545
EMULSIFIED 545
FISHLINE 545
HEAT RESISTING 545
LEATHER 545
LINOLEUM 545
METAL 545
PAPER 546
PATENT LEATHER 546
REFRIGERATOR 546
RESIN BASE 546
RUBBER 546
SPRAYING 546
TEXTILE 546
TUMBLING 546
VEILING 546
WOOD 546
WRINKLE 546
Lactarin: Algin Corp. of Amer. N.Y.C., irish moss stabilizer.
Lactic Acid see Acid Lactic
Lactic Ether See Ethyl Lactate
Lactin see Sugar of Milk
Lactoflavin see Riboflavin
Lactol: Amer. Mineral Spirits Co., N. Y. C., petroleum solventa.
Lactol Spirits: Amer. Min. Spirits Co., Chgo., petroleum lacquer diluent.
Lactose see Sugar of Milk
Ladex: Esso Standard Oil Co., N. Y. C., extreme pressure grease.
Ladle: Pacific Clay Prods., Los Angeles, fire brick.
Laksol: E. W. Colledge, G.S.A., Inc., Jacksonville, Fla., lacquer diluent.
Lambco: Lambert Corp., Houston, Texas, floor hardeners.
Laminac: Amer. Cyanamid Co., N. Y. C., resins.
Laminated Plastics see Plastics Laminating
Laminated Talc see Mica
LAMP BLACK see also Carbon Black 268
LAMPS MERCURY VAPOR 671
SODIUM (Electric) 671
Lanacid: Robinson Wagner Co., Inc., N.Y.C., lanolic acids.
Lanafin: Standard Chem. Products, Inc., Hoboken, N. J., textile emulsifying agent.
Lanamide: Robinson Wagner Co., Inc., N.Y.C., superfatting agent.
Lanamine: Robinson Wagner Co., Inc., N.Y.C., foaming base.
Lanaset: Amer. Cyanamid Co., N. Y. C., shrinkage control prep.
Lanascour WK: E. F. Drew & Co., Inc., N. Y. C., syn. soaps and detergents.
Lanasol: Lanatex Chem. Co., Providence, R.I., wetting agent.
Lanatex: Maher Color & Chem. Co., Chicago, Ill., protective agts.
Lanilike: Welin Inc., Cincinnati, O., hydrophilic petrolatum.
Lanocerin: Robinson Wagner Co., Inc., N.Y.C., lanolin wax.
Lanogene: Robinson Wagner Co., Inc., N.Y.C., lanolic acid esters.
Lanoket: American Lanolin Corporation, Lawrence, Mass., rust preventive oil.
Lanole: Warwick Chem. Co., Long Is. City, N. Y., woolen scouring comp.
LANOLIN 268
Lanolubric: E. F. Houghton & Co., Phila., text. oil.
LANOSTEROL 270
Lansco: Landers-Segal Color Co., B'klyn., N. Y., dry colors.
Lanselite: Landers-Segal Color Co., B'klyn., N. Y., minerals.
Lapidensin: Amer. Fluresit Co., Cincinnati, O., dampproofs masonry.
Lapidolith: L. Sonneborn Sons, N.Y.C., Concrete Floor hardener.
Lapis Caustic see Silver Nitrate
LANTHANUM OXIDE 270
LAPPING COMPOUNDS 547
LARD 270
LARRIES, WEIGH 671
Larva-Kil: The Standard Chemical Co., Inc., Milwaukee, Wisc., mothproofing comp.
LARVA KILLING COMPOUNDS 547
Larvacide: Innis, Speiden & Co., N.Y.C., fumigants.
Lastikalk: Lastik Prods. Co., Inc., Pittsburgh, Pa., calking compounds.
Latex Lube: The Dubois Co., Cincinnati, O., anti-adhesive.
LATEX 270
Cement see Cements Rubber
LATEX, LIQUID 547
Lathogene: R. F. Revson Co., N.Y.C., emulsifier & detergent.
Latol: Arthur C. Trask Co., Chicago, Ill., tall oils.
Laughing Gas see Nitrous Oxide
Laundrazyme: Wallerstein Co. Inc., N. Y. C., laundry aid.
Laurel Camphor see Camphor
Laurine: Givaudan-Delawanna, Inc., N. Y. C., hydroxycitronellal.
LAUROYL CHLORIDE 270
LAUROYL PEROXIDE 270
LAURYL BROMIDE 270
LAURYL CHLORIDE 270
ISOQUINOLINIUM BROMIDE 270
MERCAPTAN 270
PYRIDINIUM CHLORIDE 270
Lauxein: Monsanto Chem Co., Plastics Div., Springfield, Mass., casein and soybean glues.
Lauxite: Monsanto Chem. Co., Plastics Div., Springfield, Mass., resins.
Lava: Procter & Gamble Co., Cinc'ti, pumice hand soap.
Lavapol: General Dyestuff Corp., N. Y. C., detergent.
Lavax & Mimax: Pittsburgh Plate Glass Co., Pittsburgh, Pa., automotive finishes.
Lavekol: General Dyestuff Corp., N.Y.C., spot removing agent.
Lavendine: Koppers Co., Pitsbgh., moth repell.
Lavendone: N. Y. Aromatics Corp., N. Y., lavender prod.
Lavenol: Fritzsche Bros. Inc., N. Y. C., syn. lavender oil.
Lawiac: General Wax Ref'g Co., N.Y.C., shellac substitute.
Laxan: Westvaco Chem. Corp., N. Y. C., bottle wash. compd.
Layer-Carang see Agar
Lay-Rite: Standard Paste & Glue Co., Inc., Chicago, Ill., linoleum paste.

LEAD

LEAD 270
LEAD (Sheet, Shapes, etc.) 671
ACETATE 270
ACETATE BASIC 270
ANTIMONIATE 271
ARSENATE 271
BORATE 271
BROMIDE 271
BURNERS 671
CARBONATE 271
CHLORIDE 271
CHROMATE 271
Dioxide see Lead Peroxide
Drier see Lead Borate
2-ETHYLHEXOATE 271
Flake see Lead White
FLUORBORATE 271
FLUORIDE 271
FOIL 271
FORMATE 271
HYPOSULFITE 272
IODIDE 272
LINOLEATE 272
Metaplumbate see Lead Sesquioxide
Monoxide see Lead Oxide Yellow
NAPHTHENATE 272
NITRATE 272
OLEATE 272
Oxide Brown see Lead Peroxide
OXIDE RED 273
OXIDE YELLOW 272
PERCHLORATE 272
PEROXIDE 272
Pig see Lead
Pigments see Pigments Lead
Plaster see Lead Linoleate
Protoxide see Lead Oxide Yellow
RESINATE 272
Rhodanate see Lead Sulfocyanide
SILICATE 272
STEARATE 272
Subacetate see Lead Acetate Basic
Subcarbonate see Lead White
SULFATE BASIC 273
SULFIDE 273
Superoxide see Lead Peroxide
TALLATE 273
TETRA-ACETATE 273
Thiosulfate see Lead Hyposulfite
Trioxide see Lead Sesquioxide
TITANATE 273
TUNGSTATE 273
WHITE 273
Wire see Lead Sheet
Wolframate see Lead Tungstate
Leadleaf: Metalead Prods. Corp., San Fran., Calif., lead paste.
Leadnate: Gilbreath Chemical Co., San Fran., Calif., paint dryer.
Leaf-Green see Chlorophyll
Leathaflex: Paisley Prods. Inc., Chicago, Ill., leather cement.
Leather Binders see Binders Tanning
Leather Care: Technical Chemical Corp., Bethel, Conn., leather preservative.
Grease see Degras
LEATHER FLOUR 273
DOPE BASES 547
SHREDDED 273
Leather renew: Cavalier Co., Baltimore, Md., leather coatings.
Leatherlubrics: E. F. Houghton & Co., Phila., Pa., leather oils & greases.
Lecite: Electro-Chemical Supply & Engineering Co., Emmaus, Pa., cement.
LECITHIN 273
Lectrobreather: Pittsburgh Lectrodryer Corp., Pittsburgh, Pa., dehumidifier.
Lectrodryer: Pittsburgh Lectrodryer Corp., Pittsburgh, Pa., dehumidifier.

Lectrofilter: Pittsburgh Lectrodryer Corp., Pittsburgh, Pa., oil vapor adsorber.
Ledate: R. T. Vanderbilt Co., N.Y.C., lead dimethyldithiocarbamate (rub accel.)
Led-Chroxide: Thomson-Porcelite Paint Co., Philadelphia, Pa., metal primer.
Lee Moor: Hammill & Gillespie, Inc., Eng. china clay.
Lehigh: N.J. Zinc Co., N.Y.C., zinc oxides, leaded.
Lehigh Cresote: Dakota Briquets and Tar Products, Inc., Dickinson, N. D., lignite cresote.
Lehigh Tar Acid Oil: Dakota Briquets and Tar Prod. Inc., Dickinson, N. D., lignite tar acid oil.
Leiocom see Dextrin
Leipzig Yellow see Lead Chromate
Lemnos Earth see Iron Oxide Red
Lemon Chrome see Barium Chromate
Lencogen see Sodium Bisulfite
Lenocal: General Dyestuff Corp., N.Y.C., stripping agent.
Leolac: Lem Finch, Ltd, Los Angeles, Calif, automotive lacquers
Leoline: Lem Finch, Ltd., Los Angeles, Calif., industrial enamels.
Leonil: Gen'l Dyestuff Corp., N.Y.C., dispers. agt.
Leonil O Solution: General Dyestuff Corp., N.Y.C., synthetic degreasing agent for simultaneous dyeing and degreasing of wool stock.
Leophen: Gen'l Dyestuff Corp., N.Y.C., mercerizing asst.
Leosyn: Lem Finch, Ltd., Los Angeles, Calif., automotive synthetics.
LEPIDINE 274
Lesamite: C. K. Williams & Co., Emeryville, Calif., calcium carbonate.
Lesamite: Thompson-Weinman & Co., N. Y. C., calcium carbonate extender.
Lescol 90: Rudolph W. Lesser, Albany, N. Y., sulfonated oil.
Lestoil: Adell Chem. Co., Holyoke, Mass., syn. detergent.
Lethalaire: Virginia Smelting Co., W. Norfolk, Va., insecticide.
Lethane: Rohm & Haas Co., Philadelphia, Pa., insecticide conc.
Lethogas: Parsons Chem. Works, Grand Ledge, Mich., weevil destroyer
LEUCINE 274
Leucopitor: Sandoz Chem. Wks., Inc., N. Y. C., optical bleach.
Leucosol: Du Pont Co., Dyestuffs Div., Wilmington, Del., dyes.
Leucotrope WXN: Gen'l Dyestuff Corp., N.Y.C., text. discharge agt.
Leukanol: Rohm & Haas, Phila., synth. tanstuff.
Leukonin: R & H Chem. Dept., Du Pont Co., Wilmington, opacifier.
Leukonin: Harshaw Chem. Co., Cleveland, opacifier, paper, text. leveling agt.
LEVELING AGENTS PAPER 547
TEXTILE 547
Levelon: H. Kohnstamm & Co., Inc., N. Y. C., laundry blue.
Leveltex: Maher Color & Chem. Co., Chicago, Ill., levelling agent.
Levenol: Standard Chem. Products, Inc., Hoboken, N. J., leveling agent.
Leverpak: Continental Can Co. Inc., N.Y.C., fibre drums.
Lever-Seald: Homestead Valve Mfg. Co., Coroapolis, Pa., plug valves.
Levo-Hydroxysuccinic see Acid Malic
Levulinic Acid see Acid Levulinic
LEVULOSE 274
Lewco Remover: Lewis Chem., Co., Boston, Mass.
Lewis: Pennsylvania Salt Mfg. Co., Phila., Pa., lye.
Lewisote: Lewis Tar Prods. Co., Lyons, Ill., creosote oil.
Lewtar: Lewis Tar Prods. Co., Lyons, Ill., refined tar.
Lexol: Martin Dennis Co., Newark, N.J., leather conditioner.
Ley see Soda Caustic
Ley-Bushed: Link-Belt Co., Indianapolis, chain.
Leyden Blue see Cobalt Blue

LEXOL: The Martin Dennis Co., Div. of Diamond Alkali, 859 Summer Ave., Newark 4, N. J. Humboldt 3-2874

Self-penetrating leather conditioner; preserves, revivifies and conditions all genuine leathers. Increases the life and improves the condition of leather upholstery, bookbindings, tack, sports equipment, etc. Requires no rubbing in; merely spread on leather. Not a soap or top dressing. Standard Packages: 3 oz., pint, quart, gallon.

Lexone 50: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., insecticide.
Liberty: New Process Metals Corp., Newark, N. J., flints.
Liberty: Premier Color Works, N. Y. C., flavors.
Licannia Rigida see Oil Oiticica
Lido: Geo. B. Robbins Disinfectant Co., Inc., Cambridge, Mass., liquid cleaner.
Lifetime: Chas. S. Jacobowitz Co., Buffalo, N. Y., steel equipt.
Lifetime: Sprout Waldron & Co., Inc., Muncy, Pa., magnetic separator.
Lifetyme: Alloy Prods. Corp., Waukesha, Wisc., tanks.
Lift King: The Yale & Towne Mfg. Co., Phila., Pa., trucks.
Light Ligroin see Petroleum Ether
Lighthouse: Cutler-Magner Co., Duluth, Minn., agricultural lime.
Lightnin: Mixing Equipment Co., Inc., Rochester, N. Y., mixers.
Lightning: World Spray Co. Inc., Los Angeles, Calif., insecticides.
Lightning Penetrator: Commonwealth Color & Chemical Co., penetrator.
Lignasan: Du Pont Co., Grasselli Chem. Dept., Wilmington, fungicide.
LIGNIN 274
LIGNIN SULFONATE 274
Lignite Wax see Wax Montan
Lignocol: Heyden Chem. Corp., N. Y. C., antiskinning agt.
Lignosite: Puget Sound Pulp & Timber Co., Bellingham, Wash., lignin.
Lignotite: Paisley Products, Inc., Chicago, Ill., casein glue.
Lignotox: Paisley Products, Inc., Chicago, Ill., wood preservative.
Ligroin see Petroleum Ether
Likkety-Kut: Sterling Paint & Varnish Co., Malden, Mass., paint remover.
Lilacene: Fritzsche Bros. Inc., N. Y. C., perfume blend of lilac.
Lilas Fleurs VII: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Lily: Emery Industries, Inc., Cinc'ti, stearic acid.
Limate: Western Lime & Cement Co., Milwaukee, Wisc., hydrated lime.

LIME

LIME, AGRICULTURAL 274
CHEMICAL (Quicklime) 274
Hydrate see Calcium, Hydroxide
HYDRATED CHEMICAL 274
Nitrogen see Calcium Cyanamide
Pyrolignite see Calcium Acetate

LIME RECOVERY SYSTEMS 671
Lime Saltpeter see Calcium Nitrate
Stone see Calcium Carbonate
SULFUR 547
VIENNA 274
Lime Nitrate see Calcium Nitrate
Limitrol: Wheelco Instruments Co., Chicago, Ill., high temp. shut-off.
"Limitstat": Electric Hotpack Co., Inc., Phila., Pa., temperate control.
LINALOOL 275
LINALYL ACETATE 275
FORMATE 275
ISO BUTYRATE 275
PROPIONATE 275
Lincide: Thompson Horticultural Chems. Corp., Los Angeles, Calif., insecticide.
Lin-De-Surfacer: The Linde Air Prods. Co., N. Y. C., scarfing machine.
Lindal: Phillips & Martin Co., Chicago, Ill., tricresyl phosphate.
Lindex: Thompson Hayward Chem. Co., Kansas City, Mo., linane products.
Lindol: Celanese Corp. of Amer., N. Y. C., plasticizer.
Lindox: The Linde Air Prods. Co., N. Y. C., oxygen.
LINERS, BARREL 671
DRUM 671
GRINDING MILL 671
Linhold: Commercial Paste Co., Columbus, O., linoleum cement.
LINING, ACID OR ALKALI RESISTING 671
LININGS, REFRACTORY 671
TANK, HARD RUBBER 671
TANK, SOFT RUBBER 671
Linkrich: Globe Paint Co. Inc., Bklyn, N. Y., rust preventive.
Linnen Seed Oil see Oil Linseed
Linoglass: Armstrong Cork Co., Lancaster, Pa., cleaner.
Linoil: Werner G. Smith Co., Cleveland, O., foundry core oil.
Linoleic Acid see Acid Linoleic
Linol: Geo. Gordon Chem. Co., Kansas City, Mo., linseed replacement oil.
Lin-Oli-Ink: The Braden-Sutphin Ink Co., Cleveland, Ohio, block printing inks.
Lino-Tect: Benjamin Foster Co., Phila., Pa., floor covering adhesive.
Linseed see Flax Seed
Lintine: Johnson & Johnson, Filter Prods. Div., Chicago, Ill., filter cotton.
Linum see Flax Seed
Linwax: Reilly Tar & Chem. Corp., Indianapolis, Ind., wood preservative.
Lin-X: W. W. Lawrence & Co., Pittsburgh, Pa., floor wax.
Lin-X: Sherwin-Williams Co., Chicago, Ill., varnish.
Lion: Charles B. Chrystal Co. Inc., N. Y. C., English kaolin.
Lion: J. S. McCormick Co., Pittsburgh, Pa., core paste.
Lionbrand: Manhattan Paste & Glue Co., Inc., B'klyn, N.Y., adhesives.
Lipais: E. F. Drew & Co., Inc., N. Y. C., esters.
Liperi: Charles B. Chrystal Co. Inc., N. Y. C., pumice stone.
Liqua-San: Huntington Labs, Inc., Huntington, Ind., hand soap.
LIQUEFIED PETROLEUM GASES 275
Liquid: Link-Belt Co., Indianapolis, vibrating screen.
Liquid Ammonia see Ammonia Anhydrous
Camphor see Oil Camphor
Glass see Sodium Silicate
Paraffin see Oil Mineral
Pitch Oil see Oil Creosote
Rubber see Latex
Silver see Mercury
Soap see Soap Liquid
Wax see Waxes Liquid
Liquid Armor Brand: Missouri Paint & Varnish Co., St. Louis, Mo., paints.
Liquidepth: Petrometer Corp., L.I. City, N.Y., indicators.
Liquid Lite: Infilco, Inc., Chicago, Ill., enamel.
Liquid Patch Oil see Creosote, Coal Tar
Liquid Velvet: Infilco. Inc., Chicago, Ill., flat wall finish.
Liquilan: Robinson Wagner Co., Inc., N.Y.C., lanolin.
Liquinoleum: Continental Asbestos & Ref'g Corp., N.Y.C., waterproofing.
Liquipak: The Container Co., Van Wert, O., fiber drums.
Liqui-Part: Frederic B. Stevens Inc., Detroit, Mich., parting composition.
Liqui-Seal: Varnitor Co., Burbank, Calif., plastic cement.
Litedul: Seaboard Industries, Paterson, N.J., textiling dullers.
Liteteck: Penna Refining Co., Butler, Pa., tech. white oil.
Litharge see Lead Oxide, Yellow
Litharate: Chemo Puro Mfg. Corp., L.I. City, N.Y., lithium stearate.

LITHIUM

LITHIUM (metal) 275
ACETATE 276
ALUMINATE 276
ALUMINUM 276
ALUMINUM HYDRIDE 276
AMIDE 276
BENZOATE 276
BORATE 276
BROMIDE 276
CARBONATE 276
CHLORIDE 276
CITRATE 277
COBALTITE 277
FLUORIDE 277
HYDRIDE 277
HYDROXIDE 277
MANGANITE 277
NAPHTHENATE 277
NITRATE 277
OXALATE 277
PERCHLORATE 277
PERMANGANATE 277
SALICYLATE 277
m-SILICATE 277
STEARATE 277
SUCCINATE 277
SULFATE 277
TARTRATE 278

LITHIUM (cont'd)

TITANATE 278
ZIRCONATE 278
ZIRCONIUM SILICATE 278

Lithoform: Amer. Chem. Paint Co., Ambler, Pa., phosphate-coating chem.
Lithograph Pigments: Collway Colors Inc., Paterson, N. J., dry colors.
Lithol: General Dyestuff Corp., N.Y.C., lake dye.
LITHOPONE 278
Lithosol: Du Pont Co., Dyestuffs Div., Wilmington, Del., acids, dyes.
Little Dutchess: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., laundry blue.
Little Hustler: May-Fran. Engr. Inc., Cleveland, Ohio, conveyor.
Liver of Lime see Lime Sulfur
Liver of Sulfur see Mercury Sulfide Red
LIVER OF SULFUR 278
Lixate: International Salt Co., Inc., Scranton, Pa., rock salt dissolver.
Lixator: International Salt Co., Inc., Scranton, Pa., salt dissolving machine.
Lizarol: General Dyestuff Corp., N.Y.C., printing assistant.
Load Grab: Hyster Co., Portland, Ore., palletless handling equipt.
Load King: The Yale & Towne Mfg. Co., Phila., Pa., scales.
LOADERS, CAR 671
"Lo-Bax": Mathieson Chem. Corp., N.Y.C., bactericide.
Lobelte: E. W. Colledge, G.S.A., Inc., Jacksonville, Fla., limed gum rosin.
Lock-Ease: Amer. Grease Stick Co., Muskegon, Mich., lubricant.
Logoquant: Bee Chem. Co., Chicago, Ill., surface treatment for polystyrene.
LOGWOOD 278
EXTRACT 278
Lohseal: Midland Labs., Dubuque, Iowa, penetrating floor finish.
Lok-Rim: Carpenter Container Corp., B'klyn., N. Y., drums wood tops.
Lomar: Jacques Wolf & Co., Passaic, N. J., dispersing agent.
Lone Star: Consolidated Chem. Industries Inc., San Francisco, Calif., feeding bone meal.
Long Life: Goodall Rubber Co. Inc., Trenton, N. J., packings.
Long-lyfe: Am r. Wheelabrator & Equipt. Corp., Mishawaka, Ind., blast nozzles.
Longwood sterilizer: Barnstead Still & Sterilizer Co., Forest Hills, Boston, Mass.
Lord Baltimore: Cavalier Co., Baltimore, Md., leather finishes.
Lord's Lamino: Pingo Co., Boston, Mass., metal polish.
Loro: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., insecticide.
"Lorol": E I du Pont de Nemours & Co., Ammonia Dept., Wilmington, Del., fatty alcohol.
Lotol: Naugatuck Chem. Div., U.S. Rubber Co., Naugatuck, Conn., latices.
Louisville: General Amer. Transportation Corp., Chicago, Ill., rotary dryers.
Loupole: Jacques Wolf & Co., N. Y. C., scouring agent.
Lowemac: Lowe Bros. Co., Dayton, O., enamel.
Lowden Dryers: Colorado Iron Wks. Co., Denver, Colo.
Low-Head: Allis-Chalmers, Milwaukee, Wisc., vibrating screens.
Lox-All: Lox Mfg. Co., Kansas City, Mo., transparent cement.
Lox-Seal: Lox Mfg. Co., Kansas City, Mo., liquid solder.
Loyal Can-Sop: Royal Soap & Chem. Co., Los Angeles, Calif., hand soap.
Luban Jaur see Gum Benzoin
Lubarx: Du Bois Co., Cincinnati, Ohio, conveyor lubrication.
Lubeseal: Oilwell Chem. & Materials Co., Los Angeles, Calif., drilling materials.
Lubrex: Harwick Standard Chem. Co., Akron, O., org. mold lubricant.

LUBRICANTS

LUBRICANTS 547
CUTTING 547
EXTREME PRESSURE 547
GEAR 547
GRAPHITE 548
GRINDING 548
MOLD 548
PLASTIC MOLD 548
RUBBER 548
RUBBER MOLD 548
LUBRICATING EQUIPMENT 671
Lubricating Greases see Greases Lubricating
LUBRICATING SYSTEMS 671
LUBRICATING SYSTEMS, AIR OPERATED 671
LUBRICATING SYSTEMS, AUTOMATICALLY OPERATED 671
CENTRAL 671
ELECTRICALLY OPERATED 671
HAND OPERATED 671
LUBRICATORS AUTOMATIC 671
Lubricin: Baker Castor Oil Co., N.Y.C., lubricant additives.
Lub-Sol No. 5: Oliver Chemical Co., Cincinnati, O., cement floor cleaner.
Luburnam: Fritzsche Bros. Inc., N. Y. C., syn. floral base.
Lucidol see Benzoyl Peroxide
Lucite: E I du Pont de Nemours & Co., Plastics Dept., Wilmington, Del., acrylic resin
Ludigol: Gen'l Dyestuff Corp., N.Y.C., kier boiling ass't.
Ludox: E I du Pont de Nemours & Co., Grasselli Dept., Wilmington, Del., colloidal silicon.
Lufax: Röhm & Haas Co., Phila., zirconium oxide opacifiers.
Lugol Solution see Potassium Iodide
Lumapane: Celanese Celluloid Corp., N. Y. C., plastic glazing material.
Lumarith: Celanese Celluloid Corp., N.Y.C., cellulose acetate base.
Lumarith: Celanese Corp. of Amer., N. Y. C., molding material.
LUMBER DIP COMPOUNDS 548
Lumber Seal: Gilbreath Chem. Co., San Fran., Calif., wood end sealer.
Lumercine: Jacques Wolf & Co., Passaic, N. J., leveling agent and penetrator.
Lumnite: Warren Refining & Chem. Co., Cleveland, O., boiler comp.
Lump Coal: Du Pont Co., Explosives Dept., Wilmington, Del., explosives.
Luna: Premier Color Wks., N.Y.C., flavors.
Lunar Caustic see Silver Nitrate
Cornea see Silver Chloride
Luperco: Lucidol Div. Novadel-Agene Corp., Buffalo, N. Y., org. peroxide compds.
Luperox: Lucidol Div. Novadel-Agene Corp., Buffalo, N. Y., org. peroxide pastes.
Lupersol: Lucidol Div. Novadel-Agene Corp., Buffalo, N. Y., org. peroxide sol.
Luphite: Kano Laboratories, Chicago, Ill., lubricant.
Lupogum: Jacques Wolf & Co., N. Y. C., locust bean gum.
Lupomin: Jacques Wolf & Co., Passaic, N. J., cationic finish.
Luposec: Jacques Wolf & Co., N. Y. C., water repellent agent.
Lustan: Esso Standard Oil Co., N. Y. C., mold oil.
Luster-bryte: U. S. Sanitary Specialties Corp., Chicago, Ill., floor wax.
Lusterol: Internat'l Products Corp., Trenton, N.J., floor wax.
Luster-On: Chemical Corp., Springfield, Mass., bright dip for zinc.
Lustra Glue: Consolidated Chem. Industries Inc., San Francisco, Calif., bone and hide glues.
Lustracast: Cooper Alloy Foundry Co., Hillside, N.J., castings.
Lustral: The Diversey Corp., Chicago, Ill., bottle washing compound.
Lustral: Sherwin-Williams Co., Chicago, Ill., enamels.
Lustre: H & W Chems. Inc., Rochester, N. Y., cleaning compds.
Lustre Seal: Chapman Chem. Co., Memphis, Tenn., wood finish.
Lustre Seal: Keystone Chem. Co., Cleveland, O., water emulsion plastic.
Lustrex: Monsanto Chem. Co., Springfield, Mass., polystyrene molding granules.
Lustro: Binney & Smith Co., N.Y.C., carbon black.
Lustron: Monsanto Chem. Co., Plastics Div., Springfield, Mass., polystyrene molding granules.
Lustrone: Rohm & Haas Co., Phila., Pa., nitrocellulose.
2, 4 LUTIDINE 279
2, 6 LUTIDINE 279
Luxall: National Mfg. Corp., Tonawanda, N. Y., paint products.
Luxe: Emery Industries, Inc., Cinc'ti, stearic acid.
Luxiflux: Special Chemicals Corp., N.Y.C., soldering flux.
LUXIMETERS 671
Luxogel Base L: E. F. Drew & Co., Inc., N. Y. C., modified amino condensate.
Luxolene: E. F. Drew & Co., Inc., N. Y. C., syn. esters.
Lux-O-San: E. F. Drew & Co., Inc., N. Y. C., sulfonated ethyl oleate.
Luxotint: Sterling Pt. & Varnish Co., Malden, Mass., casein powder.
Luxstar: Cereait Waterproofing Corp., Chgo., cement paint.
Lusidol see Benzoyl Peroxide
Lyco: Reilly Tar & Chem. Corp., Indianapolis, Ind., water retardant.
Lycopart: Chemo Puro Mfg. Corp., L. I. City, N. Y., artificial lycopodium.
LYCOPODIUM 279
Lye see Soda Caustic
Lyfanite: Neilson Chem. Co., Detroit, Mich., coating.
Lykopon: Rohm & Haas Co., Phila., Pa., text. reducing agt.
Lylium: Fritzsche Bros. Inc., N. Y. C., syn. flower base.
LYSINE 279
Lyt-all: Pratt & Lambert, Inc., Buffalo, N. Y., wall coatings.

M

3-M: Minnesota Mining & Mfg. Co., Adhesives & Coatings Div., Detroit, Mich., industrial adhesives.
803-M: E. F. Drew & Co., Inc., N. Y. C., emulsifier.
McKee: Eclipse Fuel Engr. Co., Rockford, Ill., boilers.
McNamee: R. T. Vanderbilt Co. Inc., N.Y.C., clay.
M. D. A.: Heyden Chem. Corp., N.Y.C., methylene disalicylic acid.
MD Powders: Metals Disintegrating Co., Elizabeth, N. J., metal powders.
M. E.: Binney & Smith Co., N.Y.C., photoengravure black
MGK-264: McLaughlin Gormley King Co., Minneapolis, Minn., insecticide synerginat.
M-K-O: Mears-Kane-Ofeldt, Inc., Phila., Pa., automatic boiler feed systems.
M.L.S.: Paisley Products, Inc., Chicago, Ill., mucilage.
M & M "Silver Pigs": Mitts & Merrill, Saginaw, Mich., plastic granulators.
M & M Hogs: Mitts & Merrill, Saginaw, Mich., reduction machinery.
MM&R: Magnus, Mabee & Reynard, Inc., N.Y.C., essential oils; balsams; perfume.
M. O.: Spazier Soap & Chem. Co., detergent.
"M" Sterling: Metallurgical Prods. Co., Phila., Pa., copper anodes.
M R: Marco Chems Inc., Sewarden, N.J., resins.
M. R. 265": R. T. Vanderbilt Co., N.Y.C., rub. softener.
M-S: Davison Chemical Corp., Baltimore, Md., gel catalyst.
2-MT: Du Pont Co., Rubber Chems. Div., Wilmington, Del., rubber accelerator.
MX: The Carborundum Co., Niagara Falls, N. Y., abrasives.
Mac Draw: Macco Products Co., Chicago, Ill., metal stamping compound.
Macassar Gum see Gum Macassar
Macbeth: Corning Glass Wks., Corning, N. Y.
Mac-co: Modern Adhesive & Chem. Co., Malden, Mass., rubber & resin cements.
Maccut: Macco Products Co., Chicago, Ill., metal cutting compound.
MACHINERY, CARTON STITCHING 671
COAL HANDLING 671
FLOTATION 671
INK MIXING 671
PAINT MIXING 671
PASTE MIXING 672
Mace: McCann Chemical Co., Louisville, Ky., detergents.
Macor: J. S. McCormick Co., Pittsburgh, Pa., foundry facing.
Macquer's Salt see Potassium Arsenate
Mac-Tex: Modern Adhesive & Chem. Co., Malden, Mass., nat'l. and syn. rubber.
MADDER 278
Magenta: General Dyestuff Corp., N.Y.C., basic dye.
Magic: Chem. Mfg. Sales Co., Chicago, Ill., glass cleaner.
Magic ant killer: Barton Chem. Co., Chicago, Ill., ant exterminator.
Magikil: Lethelin Products Co., Inc., Mt. Vernon, N. Y., insecticide.
Magistery of Bismuth see Bismuth Subnitrate
"Mag-Li-Flux": Moores Lime Co., Springfield, Mass., fluxing lime.
Mag-Li-Kote: The Moores Lime Co., Springfield, O., mold coating.
Maglite M: Marine Magnesium Products Corp., San Francisco, Calif., conc. magnesium hydroxide.
Magna: Magnus, Mabee & Reynard, N. Y. C., flavors.

Magnaflake: Magna Mfg. Co., N. Y. C.
Magne Dash: Autoclave Engineers Inc., Erie, Pa., autoclave.
Magnefer: Basic Refractories, Inc., Cleveland, Ohio.
Magnephot: W. M. Welch Scientific Co., Chicago, Ill., exposure meter.
Magnephylline: Sherman Laboratories, Detroit, Mich., tablets.
Magnesia see Magnesium Oxide
  Alba see Magnesium Carbonate
  Alba Levis see Magnesium Carbonate
  Usta see Magnesium Oxide
MAGNESITE see also Magnesium Carbonate 278

MAGNESIUM

MAGNESIUM (the metal) 279
  ACETATE 279
  ALUMINUM SILICATE 279
  Ammonium Ortho Phosphate see Magnesium Ammonium Phosphate
  AMMONIUM PHOSPHATE 279
  ARSENATE 279
  BENZOATE 279
  BROMIDE 279
  CACODYLATE 279
  Calcium Chloride see Calcium Magnesium Chloride
  CARBONATE see also Magnesite 279
  CHLORIDE 280
  CHROMATE 280
  Dioxide see Magnesium Peroxide
  FLUORIDE 280
  Fluosilicate see Magnesium Silicofluoride
  FORMATE 280
  GLUCONATE 280
  GLYCEROPHOSPHATE 280
  GUAIACOL SULFONATE 280
  Hydrate see Magnesium Hydroxide
  HYDROXIDE 280
  HYPOPHOSPHATE 280
  LACTATE 280
  LIGNOSULFONATE 280
  NAPHTHENATE 280
  NITRATE 280
  OLEATE 281
  OXALATE 281
  OXIDE 281
  PERCHLORATE 283
  Perhydrol see Magnesium Peroxide
  PERMANGANATE 282
  PEROXIDE 282
  PHOSPHATE 282
  POWDER 282
  RESINATE 282
  RICINOLEATE 282
  SALICYLATE 282
  SILICATE 282
  SILICOFLUORIDE 282
  STEARATE 282
  SULFATE 283
  Superoxide see Magnesium Peroxide
  THIOSULFATE 283
  TITANATE 283
  TRISILICATE 283
  ZIRCONIUM SILICATE 283
Magnesol: Westvaco Chem. Corp., N. Y. C., syn. magnesium silicate compd.
MAGNETS 672
Magnetic Iron Oxide see Iron Oxide Black
Magniset: Bristol Co., Waterbury, Conn., controller.
Magnorite: Norton Co., Worcester, Mass., fused magnesium oxide.
Mahrvel: Mahr Mfg. Co. Div., Minneapolis, Minn.
Mainstay: Bemis Bro. Bag Co., St. Louis, Mo., closing bags.
Maize Oil see Oil Corn
"Major": Lunkenheimer Co., Cincinnati, O., lubricators.
Major: Penetone Co., Tenafly, N. J., automotive degreaser.
Malayan Camphor see Borneol
MALEIC ANHYDRIDE 283
MALEICS, MODIFIED RESINS 283
Malia: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Malonic Methyl Ester Nitrile see Methyl Cyanoacetate
Malonic Mononitrile see Acid Cyanoacetic
MALONITRILE 284
Malonyl Urea see Acid Barbituric
Mallophene: Mallinckrodt Chem. Works, St. Louis, Mo., urinary antiseptic.
Mallory: Textile Proofers, Inc., Jersey City, N. J., waterproofing comp.
Maltese Cross: Hewitt Rubber Div., Buffalo, N. Y., conveyor belting.
MALTOSE 284
Manaphthone see Vitamin K
Manasite: Atlas Powder Co., Wilmington, Del., explosives.
Manchester Clay: United Clay Mines Corp., Trenton, N.J., sandy N.J. clay.
Manco: Maneely Chem. Co., Wheatland, Pa.
Mandarin Orange: Ansbacher-Siegle Corp., Rosebank, S. I., N. Y., molybdate orange.
Mandloc see Tapioca Flour
Manganate: Gilbreath Chemical Co., San Fran., Calif., paint dryer.

MANGANESE

MANGANESE (metal) 284
  ACETATE 284
  Binoxide see Manganese Dioxide
  BORATE 284
  CACODYLATE 284
  CARBONATE 284
  CHLORIDE 284
  DIOXIDE 284
  2-ETHYLHEXOATE 284
  GLUCONATE 284
  GLYCEROPHOSPHATE 284
  HYPOPHOSPHITE 284
  LINOLEATE 284

MANGANESE (metal) (cont'd)
  NAPHTHENATE 285
  NITRATE 285
  OLEATE 285
  Ore see Manganese Dioxide
  OXALATE 285
  Oxide see Manganous Oxide
  Peroxide see Manganese Dioxide
  Powder see Metals Powder
  Protoxide see Manganous Oxide
  RESINATE 285
  STEARATE 285
  SULFATE 285
  TALLATE 285
  TITANIUM 285
  White see Manganese Carbonate
MANGANOUS Acetate see Manganese Acetate
  Borate see Manganese Borate
  OXIDE 285
  Sulfate see Manganese Sulfate
Mangasul: Western Electro-Chem. Co., Los Angeles, Calif., magnesium oxide.
MANGROVE BARK 285
  EXTRACT see also Cutch 285
Manhattan: Raybestos-Manhattan Inc., Passaic, N.J., rubber lined tanks.
MANHOLES 672
Manila Elemi see Gum Elemi
  Gum see Gum Manila
Manioca see Tapioca Flour
Mannheimer: Ernecke & Salmatein Co., Chgo., brewers' pitch.
Mannides see Mannitan Esters
Mannitans see Mannitan Esters
Mannite see Mannitol
MANNITOL 285
  BORATE 285
  ESTERS 285
  HEXANITRATE 285
MANNOSE 285
Manol: Sherwood Refg. Co. Inc., Englewood, N.J., white mineral oil.
Manostat see Controls, Pressure
MANOMETERS 672
MANOMETERS U-TYPE 672
MANOSTATS 672
Man-Ten: Carnegie-Ill. Steel Corp., Pittsburgh, Pa., steel.
Mapco: Michel & Pelton Co., Emeryville, Calif.
Maplearome: Florasynth Labs., Inc., Bronx, N. Y., flavor.
Maprofix NEU: Onyx Oil & Chem. Co., Jersey City, N. J., wetting agent.
Mapromol: Onyx Oil & Chem. Co., Jersey City, N. J., softening agents.
Marabond: Marathon Corp., Chem. Div., Rothschild, Wis., ceramic binder.
Maracell: Marathon Corp., Chem. Div., Rothschild, Wisc., boiler scale inhibitor.
Maranta see Arrowroot and Starch Corn
Marasperse: Marathon Corp., Rothschild, Wisc., dispersing agents.
Maratan: Marathon Corp., Chem. Div., Rothschild, Wisc., tanning agent.
Maratex: Marathon Corp., Chem. Div., Rothschild, Wisc., grinding aid.
Marble Brand: Will Baumer Candle Co., Inc., Syracuse, N. Y., stearic acid.
Marble Dust see Calcium Carbonate
MARBLE FLOUR 285
Marbon White see Lithopone
Marcaleak: Maher Color & Chem. Co., Chicago, Ill., leak detector.
Marcamine: Maher Color & Chem. Co., Chicago, Ill., emulsifying agt.
Marcaminol: Maher Color & Chem. Co., Chicago, Ill., emulsifying agts.
Marcanol: Maher Color & Chem. Co., Chicago, Ill., scouring & dyeing auxts.
Marcation: Maher Color & Chem. Co., Chicago, Ill., cation-active finishes.
Marcoboard: Marco Chems. Inc., Sewarden, N.J., resins.
Marcofix: Maher Color & Chem. Co., Chicago, Ill., dyestuff chemicals.
Marcofluor: Maher Color & Chem. Co., Chicago, Ill., fluorescent dyes.
Marcolite: Maher Color & Chem. Co., Chicago, Ill., stripping agts.
Marconon: Maher Color & Chem. Co., Chicago, Ill., anion-active finishes.
Marcopel: Maher Color & Chem. Co., Chicago, Ill., tex. waterproofing agt.
Marcosize: Maher Color & Chem. Co., Chicago, Ill., sizing finishes.
Marcosol: Maher Color & Chem. Co., Chicago, Ill., sol. oils.
Marcosoiv: Maher Color & Chem. Co., Chicago, Ill., wool scouring agts.
Marcosulf: Maher Color & Chem. Co., Chicago, Ill., sulphonated oils.
Marcoterge: Maher Color & Chem. Co., Chicago, Ill., detergents.
Marcowet: Maher Color & Chem. Co., Chicago, Ill., wetting agts.
Marilys: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Marinco 50-50: Marine Magnesium Products Corp., San Francisco, Calif., calcium & magnesium carbonate.
Marine: L. W. Ferdinand & Co., Inc., Newton Lower Falls, Mass., gasket cement.
Marjolaine: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Mariate: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., insecticide.
Marmax: Esso Standard Oil Co., N. Y. C., paraffin oils.
Marmax: Esso Standard Oil Co., N. Y. C., specially compounded oils.
Mar-Not: Sherwin-Williams Co., Chicago, Ill., varnish.
Mars Red see Iron Oxide Red
  Yellow see Iron Oxide Yellow
Marsh Gas see Methane
Marstik: Marstin Adhesive Co., Wollaston, Mass., liquid casein glues.
Marvanol: Marlowe-Van Loam Corp., High Point, N. C., dyeing oils.
Marvantex: Marlow-Van Loan Corp., High Point, N. C., scouring agts.
Marvel type wash: Barco Chem. Prods. Co., Chicago, Ill., ink remover.
Mar-Vin: E. F. Drew & Co., Inc., N. Y. C., detergents.
MASKS (Dust, Fume, Gas, Smoke, etc.) 672
Maskrome: Fiber Chem. Corp., Cliffwood, N. J., masking agent.
Masonry Fillers see Fillers Masonry
  Hardeners see Hardeners Cement
  Waterproofing Agents see Waterproofing Agents Masonry
Mason-seal: Calbar Paint & Varnish Co., Phila., Pa., waterproofer.
Massico see Lead Oxide Yellow
Master: B. F. Gump Co., Chicago, Ill., continuous mixing systems.
Master: Michigan Chem. Corp., St. Louis, Mich., methyl bromide.
Master-caulk: Calbar Paint & Varnish Co., Phila., Pa., caulking compd.
Master Marker: The Pannier Corp., Pittsburgh, Pa., marking devices.
Master Meter: Clehling Just Co., Paterson, N. J., temperature recorder.
Masterplate: Master Builders Co., Cleveland, O., metallic hardener.

Mastertex: Master Builders Co., Cleveland, O., cement paint.
Mastertrol: Emmett Machine & Mfg., Inc., Akron, O., control centers.
Masticha see Gum Mastic
"Mastipave": Parfitne Companies Inc., San Francisco, Calif., floor covering.
Mastipitch: Ralph V. Rulon, Inc., Phila., Pa., acidproof coatings.
Mastix see Gum Mastic
Mastolyn: Hercules Powder Co., Wilmington, Del., syn. resin.
Matalig: Marathon Corp., Chem. Div., Rothschild, Wis., boiler water treatment.
MATERIALS HANDLING EQUIPMENT 672
Matoleum: Esso Standard Oil Co., N. Y. C., lime base greases.
Matrix-Nu: Crescent Chemical Corp., Perth Amboy, N. J., fire mold cleaner.
Maxon Brand: Wm. McDonagh & Sons, N.Y.C., linseed oil.
Maypon: Maywood Chem. Works, Maywood, N. J., wetting agent.
Mazda Rubine: Anabacher-Siegle Corp., Rosebank, S. I., N. Y., litho rubine.
McCully: Allis-Chalmers, Milwaukee, Wisc., crushers, elevators.
McKay: The Linde Air Prods. Co., N. Y. C., valves.
Meadow Green see Copper Acetoarsenite
Mearlfoam: The Mearl Corporation, New York 14, N. Y., mechanical foam liquids.

MEARLINS: The Mearl Corp., 153 Waverly Place, N.Y. 14 Chelsea 2-3680

Surface-active agents derived from proteins by partial hydrolysis. Particularly suitable for foam stabilization and emulsion stabilization, e.g. neatsfoot oil-glycerine, linseed oil-water, asphalt, dormant oil emulsions. Dye assistant. Insecticide assistant.

Mearlmaid: Mearl Corp., N.Y.C., pearl essence.
MEASURES, GLASS 672
MEAT CURING COMPOUNDS 543
Flavors see Flavors Meat Packers'
Salt see Ammonium Fluoride
Mecca see Shellac
Mecca Galls see Nutgalls
Meccasol: Carlton Chem. Co., Inc., N. Y. C., laundry detergent.
Mecco: Curtis Mfg. & Asbestos Co., Boston, Mass., cements.
Medialan: Gen'l Dyestuffs Corp., N.Y.C., fulling and scouring agent.
Medical: Sherwood Refg. Co. Inc., Englewood, N. J., white mineral oils.
Meetex: Thomas C. Mee, Pawtucket, R. I., ready-mixed paints.
Megamines: Synthetic Chemicals Inc., Paterson, N. J., dispersing agts.
Mekon: Warwick Chem. Co., L.I. City, N.Y., waxes.
MELAMINE 285
Melaniline see Diphenylguanidine
Melcine: Jacques Wolf & Co., N. Y. C., plasticized aliphatic triamide.
Melcine (Paste): Jacques Wolf & Co., Passaic, N. J., a plasticizer.
Melcineera (Liquid): Jacques Wolf & Co., Passaic, N. J., a finish after dyeing.
Melhi: Hercules Powder Co., Wilmington, Del., resin.
Melitose see Raffinose
Mellol: Arnold, Hoffman & Co. Inc., Providence, R. I., softener.
Mellolite: Lowe Bros. Co., Dayton, O., mill whites.
Mello-Nuts: Kehew Bradley Co., Boston, Mass., fat liquors.
Mellostrine: Nyanza Color & Chem. Co., N.Y.C., tex. waterproofing agent.
Melmac: Amer. Cyanamid Co., N. Y. C., resins.
Mel-o-tex: Amer. Cyanamid Co., N. Y. C., text. softener.
Melrose: The Chem. and Pigment Co., Oakland, Calif., bleached baryte.
Meltomatic: Wayne Chemical Products Co., Detroit, Mich., cream-type solder.
Melt-Pointer: Scientific Glass Apparatus Co., Inc., Bloomfield, N. J., melting point apparatus.
Melurac: Amer. Cyanamid Co., N. Y. C., resins.
MEMBRANES, ACID & ALKALI PROOF 672
Mempo: Deady Chem. Co., Kansas City, Mo., water treatment.
Menadione see Vitamin K$_3$
Menaphthene see Vitamin K
MENTHOL (natural) 286
SYNTHETIC 286
MENTHYL SALICYLATE 287
VALERATE 287
Mentor: Esso Standard Oil Co., N. Y. C., non-viscous oils.
Merac: Sharples Chems. Inc., Phila., Pa., latex accelerator.
MERBROMIN 287
Mercerol: Sandoz Chem. Wks., Inc., N. Y. C., wetting agt.
3B Mercaptan: Sharples Chemicals Inc., Phila., Pa., tert-dodecyl mercaptan.
Mercaptoacetic Acid: see Acid Thioglycollic
2-MERCAPTOETHANOL 287
Mercapen: L. Sonneborn Sons, Inc., N.Y.C., mercerizing ass't.
Mercaron: L. Sonneborn Sons Inc., N.Y.C., softener; lubricant.
Mercerising Assistants see Assistants Mercerising
Merco: Merchants Chem. Co., Inc., N.Y.C.
Merco-Dri: Merchants Chem. Co., Inc., N. Y. C., absorbent.
Merc-to-Merc: Precision Scientific Co., Chicago, thermo regulators and relays.
MERCURIAL OINTMENT 287, 543
MERCURIC ACETATE 287
MERCURIC CHLORIDE 287
Cyanide see Mercury Cyanide
IODIDE 287
OXIDE RED 287
OXIDE YELLOW 288
Mercurine: Ferisol Co., N.Y.C., pigment base.
Mercurius Vitae see Antimony Oxychloride
Mereure: Estes Surgical Supply Co., Atlanta, Ga., nitrogen determination.
MERCUROUS CHLORIDE 288
Mercurous Diiodoparaphenolsulphonate see Mercury Sozoiodolate
MERCUROUS IODIDE 288
OXIDE 288
Mercury Acetate see Mercuric Acetate

MERCURY

MERCURY 289
ACETATE 289
AMMONIATED 289
Bichloride see Mercuric Chloride
Binlodide see Mercuric Iodide

MERCURY (cont'd)
BISULFATE 289
Bland see Mercury Sulfide Red
Chloride see Mercuric Chloride
Chloride Mild see Mercurous Chloride
CYANIDE 289
Monochloride see Mercurous Chloride
NAPHTHENATE 289
NITRATE 290
Pernitrate see Mercury Nitrate
Persulfate see Mercury Bisulfate
Protochloride see Mercuric Chloride
Red Precipitate see Mercuric Oxide Red
Sulfate see Mercury Bisulfate
SULFIDE RED 290
Marfenol: Hamilton Lab., Inc., Asheville, N.C., phenylmercuric compounds.
Marfenolope: Hamilton Lab., Inc., Asheville, N. C., slime preventive.
Merit: Emmett Machine & Mfg., Inc., Akron, O., diaphragm valves.
Meritrol: Emmett Machine & Mfg., Inc., Akron, O., electric counters.
Meritseal: Crown Cork Specialty Corp., Decatur, Ill., closure for cosmetics.
Merol: E. W. Colledge, G.S.A., Inc., Jacksonville, Fla., zinc calcium resinate.
Merpentine: Du Pont Co., Fine Chems. Div., Wilmington, Del., text. processing agt.
Merphenyl: Hamilton Labs, Asheville, N. C., phenyl mercuric compds.
Merpol: Du Pont Co., Fine Chems. Div., Wilmington, Del., text. processing agt.
Mersize: Monsanto Chem. Co., Boston, Mass., paper size.
Mersol: Monsanto Chem. Co., Boston, Mass., proprietary solvents.
Mertanol: Monsanto Chem. Co., Boston, Mass., pitch control agt.
Mertone: Monsanto Chem. Co., Boston, Mass., blueprint precoat.
Meseco: Link-Belt Co., San Francisco, plate clutch.
MESITYL OXIDE 290
7-Meso-Benzanthrone-7-1 see Benzanthrone
Mesoxylylurea see Alloxan
Meta compounds listed under first word following Meta, e.g., Meta Cresol listed as m-Cresol, is indexed under "C".
Metacetaldehyde see Metaldehyde
Metacetone see Diethylketone
Metachlornaphthane see Chlornaphthalene
Metachloronitrobenzene see Chlornitrobenzene
Meta-Diazine see Pyrimidine
Metadihydroxybenzene see Resorcinol
METAL Cleaners see Cleaners Metal also Detergents Metal
Degreasing Solvents see Solvents Metal-Degreasing
Drilling Compounds see Drilling Compounds Metal
Niobium see Columbium
Plumbum see Lead
STAMPING COMPOUNDS 543
Metal Mark: Amer. Crayon Co., Sandusky, Ohio, hot metal markers.
METALDEHYDE 290
Metallic Colors see Colors Metallic
Paints see Paints Metallic
Soap see Soaps Metallic
METALS see individual headings such as Aluminum; Barium; Cadmium; Cobalt; etc.
LOW-MELTING 290
PASTE 290
POWDER 290
WHITECASTING 290
Metal Niobium see Columbium
Metalab: Metalab Equipt. Corp., B'klyn, N. Y., lab. furniture.
Metalan: General Dyestuff Corp., N.Y.C., mordant acid dye.
Metalate: Diamond Alkali Co., Cleveland, Ohio, laundry detergent.
Metalead: Metasap Chemical Co., Harrison, N. J., pressure grease base.
Metalene: B. P. Bucas Co., Inc., Jersey City, N. J., rust remover.
Metalite Zatex: Industrial Finishes Dept., Atlas Powder Co., Stamford, Conn., textile lacquers.
Metallac: Metasap Chem. Co., Harrison, N.J., flatting comp.
Metalox: Herbert Chem. Co., Cincinnati, O., printing detergent.
Metal Prep: Neilson Chemical Co., Detroit, Mich., metal cleaners.
Metalstone: E. F. Boruski, Jr., N. Y. C., metallic oxide cement.
Metalstone: Multi-Mold Products, N.Y.C., magnesite cement.
Metalubes: Universal Chemical Co., Boston, Mass., cutting oils.
Metaluminum: Continental Asbestos & Refg. Corp., N.Y.C., aluminum coating.
Metaltite: Laclede-Christy Co., St. Louis, Mo., cement refractory.
Metalustre: Maas & Waldstein Co., Newark, N.J., enamels.
Metalux: Uncle Sam Chem. Co. Inc., N. Y. C., silver polish.
Metal-Weld: Lox Mfg. Co., Kansas City, Mo., metallic cold solder.
Metalyn: Hercules Powder Co., Wilmington, Del., syn. resin.
Metameter: Bristol Co., Waterbury, Conn., metering system.
Metamine: Nyanza Color & Chem. Co., N.Y.C., acid dyes.
Metanilic Acid see Acid Metanilic
Metanitrotoluene see Nitrotoluene
Metatolyl Aldehyde see Metamethyl Benzaldehyde
Metaphone: Bristol Co., Waterbury, Conn., telemetering system.
Metavane: Bristol Co., Waterbury, Conn., telemetering system.
Metavis: Metasap Chemical Co., Harrison, N. J., grease base.
Metcote: Metalab Equipt. Corp., B'klyn, N.Y., chem. resistant enamel.
Meterflo: Cherry-Burrell Corp., Chicago, Ill., positive pumps.
Meteor: The Chemical & Pigment Co., Oakland, Calif., zinc sulphate crystals.
Metermax: Leeds & Northrup Co., Phila., Pa., control systems.

METERS
BOILER 672
ELECTRICAL 672
ELECTRONIC AREA 672
FLOW 672
GAS 672
INTEGRATING 672
MOISTURE 672
ORIFICE 672
OXYGEN 672
pH 672
SEWAGE 672
TELEMETERING 672
VENTURI 672
VOLUMETRIC 672
WATER 672
Metex: Lasalco, Inc., St. Louis, Mo., cleaner.
Methacrol: E I du Pont de Nemours & Co., Organ. Chems. Dept., Wilmington, Del., resin dispersions.

Methalate C: Fritzsche Bros. Inc., N. Y. C., methyl salicylate sub.
METHALLYL CHLORIDE 290
Methanal see Formaldehyde
Methanated: Colonial Alloys Co., Phila., Pa.
METHANE 290
Methanite: Floridin Co., Warren Pa., fullers earth.
METHANOL 290
Methenamine see Hexamethylenetetramine
Methenyl Trichloride see Chloroform
Meth-hydroxy-benzene see Guaiacol
dl METHIONINE 292
Methocel: Dow Chemical Co., Midland, Mich., methylcellulose.

METHOX: Ohio-Apex, Inc., Nitro, W. Va. Nitro 152

Dimethoxy Ethyl Phthalate. Methyl Glycol Phthalate. Di-methyl Glycol Phthalate. A practically water-white, neutral, odorless ester. Good stability and resistance to hydrolysis and light. Low solubility in petroleum hydrocarbons and low turpentine solubility. Boiling range @ 4mm., 190 to 210°C. Freezing point,—40°C. (very stiff clear gel).

1-Methoxy-2-Amino-4-Chlorobenzene see Chloroanisidine
2-Methoxy Ethyl-12-Acetoxyricinoleate see Methyl "Cellosolve" Acetyl Ricinoleate
2-Methoxy Ethyl Ricinoleate see Methyl "Cellosolve" Ricinoleate
METHOXY ETHYL ACETYL RICINOLEATE 292
ETHYL OLEATE 292
Methoxy-hydroxy-benzaldehyde see Vanillin
Methoxymethane see Ether Dimethyl
METHYL ABIETATE 292
ABIETATE HYDROGENATED 292
ACETATE 292
ACETOACETATE 292
ACETONE see also Methyl Ketone 292
ACETOPHENONE 292
Acetyl see Acetone
ACETYLENE 292
ACRYLATE 293
Alcohol see Methanol
Aldehyde see Formaldehyde
AMINE 292
AMINE HYDROCHLORIDE 292
AMINO PYRIDINE 292
2-Methyl Amino-1-Phenyl Propane see Desoxyephedrine
N-Methyl-Amphetamine see Desoxyephedrine
AMYL ACETATE 292
n-AMYL KETONE 293
ANILINE 293
ANTHRANILATE 293
b-METHYL ANTHRAQUINONE 293
Benzene see Toluol
METHYL BENZOATE 293
Benzol see Toluol
a-Methyl Benzyl Alcohol see Methyl Phenyl Carbinol
METHYL BROMIDE 293
2-Butane see Iso-Pentane
2-METHYL-3-BUTYN-2-ol 293
Methyl Carbinol see Alcohol Ethyl
Carbitol see Diethylene Glycol Monomethyl Ether
Cellosolve see Ethylene Glycol Monomethyl Ether
"CELLOSOLVE" ACETYL RICINOLEATE 293
"CELLOSOLVE" OLEATE 293
"CELLOSOLVE" RICINOLEATE 293
"CELLOSOLVE" STEARATE 293
CELLULOSE see also Ether Glycol Monomethyl 293
CHLORIDE 294
CHLOROACETATE 294
CINNAMATE 294
Cinnamylketone see Benzylideneacetone
COUMARIN 294
CROTONATE 294
Methyl Cyanide see Acetonitrile
CYANOACETATE 294
CYCLOHEXANE 294
CYCLOHEXANOL 294
CYCLOHEXANONE 294
CYCLOPENTANE 294
Methyl Decab: Rhodes Chem. Corp., Plainfield, N. J., oleyl trimethyl ammonium bromide.
METHYL-2, 4-DICHLOROPHENOXYACETATE 294
DICHLOR STEARATE 294
DIETHANOLAMINE 294
DIOXOLANE 294
ESTER OF TALL OIL 294
ETHER OF DIETHYLENE GLYCOL 294
ETHER OF ETHYLENE GLYCOL 295
Ether see Ether Dimethyl
Ethyl Carbinol Dibutanol see Alcohol Butyl Secondary
ETHYL KETONE 295
Ethyl Methane see Butane
Ethylene Glycol see Propylene Glycol
Ethynyl Carbinol see 3-Butyn-2-ol
FORMATE 295
Formic Acid Ester see Methyl Formate
HEPTINE CARBONATE 295
Hexane see Heptane
Hexanone see Methyl Hexyl Ketone
Hexyl Carbinol see Alcohol Octyl, see also Alcohol Octyl Normal Secondary
HEXYL KETONE 295
Hydrate see Methanol
Hydride see Methane
HYDROQUINONE 295
Hydroxide see Methanol
Hydroxybenzine see Guaiacol Liquid
p-HYDROXY BENZOATE 295
2-Methyl-3-Hydroxy-4,5-di-(Hydroxymethyl)-Pyridine Hydrochloride see Vitamin B6
Hydroxy-isopropyl Benzene see Thymol
IODIDE 295
IONONE 295
Isobutyl Carbinol Acetate see Methyl Amyl Acetate
ISOBUTYL CARBINOL 296
ISOBUTYL KETONE see also Hexone 296

METHYL-2 (cont'd)
Isobutylene Ketone see Mesityl Oxide
Isopropylbenzene see Cymene
ISOPROPYL KETONE 296
LAURATE 296
LEVULINATE 296
MAGNESIUM IODIDE 296
MERCAPTAN 296
METHACRYLATE 296
2-Pertanol see Methyl Isobutyl Carbinol
MONOBROMOACETATE 296
n-METHYL MORPHOLINE 296
METHYL MYRISTATE 296
a-METHYL-NAPHTHALENE 297
b-METHYL-NAPHTHALENE 297
2-Methyl-1,4-Naphthoquinone see Vitamin K
METHYL NAPHTHYL KETONE 297
NONYL KETONE 297
OLEATE 297
ORANGE 297
Ortho-Aminobenzoate see Methyl Anthranilate
Oxide see Ether Dimethyl
Methyl-p-oxy Benzoic Acid, see Acid Anisic
Para Cresol see Chemicals Aromatic
Parasept: Heyden Chem. Co., N.Y.C.
PENTACHLOR STEARATE 297
2-METHYL-2,4 PENTANEDIOL 297
METHYL PENTANES 297
4-Methyl, 2-Pentanol see Methyl Isobutyl Carbinol
Phenol see Acid Cresylic
m-Methylphenol see m-Cresol
o-Methylphenol see o-Cresol
METHYL PHENYL ACETATE 297
PHENYL CARBINOL 297
PHENYL CARBINOL ACETATE 297
Phenylcinchoninate see Cinchophen Methyl Ester
Phenyl Ether see Anisole
N-Methyl-B-Phenyl Iso Propyl Amine see Desoxyephedrine
Methyl Phosphate see Trimethyl Phosphate
Phthalate see Dimethyl Phthalate
N-Propyl Carbinol see Alcohol Amyl Secondary
PROPYL KETONE 297
Rhodione see Chemicals Aromatic
RICINOLEATE 297
SALICYLATE 298
STEARATE 298
a-METHYL STYRENE 298
Styrylketone see Benzylideneacetone
Sulfate see Dimethylsulfate
b-METHYL UMBELLIFERONE 298
METHYL UREA 298
METHYL VIOLET 298
METHYLAL 298
Methyl-allyl see Alcohol Crotyl
Methyl Cyanide see Acetonitrile
Methyl decab: Rhodes Chem. Corp., Plainfield, N. J., oleyl trimethyl ammonium bromide.
Methylene Bichloride see Methylene Chloride
METHYLENE BLUE 298
BROMIDE 298
CHLORIDE 298
Methylene Dicyanide see Melononitrile
Dimethyl Ester see Methylal
Dimethylate see Methylal
Diphenyl see Diphenylmethane
IODIDE 299
Oxide see Formaldehyde
Methylic Salicylas see Methyl Salicylate
Methylmethane see Ethane
m-Methylphall see Meta Cresol
Methylphenyl Ester see Methylphenyl Ether
Methylprocatechin see Guaiacol Liquid
Methylprotocatechuic Aldehyde see Vanillin
2-Methyl-propene-1 see Isobutylene
Methyl-propyl Carbinol see Alcohol Amyl Secondary
Methylpropylphenol see Thymol
Methylthionine Chloride see Methylene Blue
Methyltoluidines see Xylidines Mixed
Metla-Cota: State Mfg. Co., Cleveland, O., boiler water treatment.
Metrox: Metals Refining Co., Hammond, Ind., lead oxide.
Metso: Phila. Quartz Co., Phila., sodium metasilicate.
Mexico Seed see Castor Bean
Mex-ko: A. P. Green Fire Brick Co., Mexico, Mo., fire-clay brick.
Miasine see Pyrimidine
MICA 299
Pigments see Pigments Mica
Micatex: Baroid Sales Div., Nat'l Lead Co., Los Angeles, Calif., special mica.
Michelene: M. Michel & Co., Inc., N. Y. C., surface-active agents.
Mico: Midland Industrial Finishes Co., Waukegan, Ill., silicone finishes.
Micro Magnetic: Erie Mfg. Co., Erie, Pa., separator.
Microact: Bristol Co., Waterbury, Conn., controller.
Microcut: Quaker Chem. Prods. Corp., Conshohocken, Pa., metal cutting bases.
Microdol: Eastman Kodak Co., Rochester, N. Y., photographic developer.
Microfyne: Jos. Dixon Crucible Co., Jersey City, N. J., graphite.
Microgrind: Quaker Chem. Prods. Corp., Conshohocken, Pa., grinding compounds.
Microil: Kano Laboratories, Chicago, Ill., instrument oil.
Microkjeldahl: Microchemical Specialties Co., Berkeley, Calif., distillation apparatus.
Micro-klean: Cuno Engineering Co., Meriden, Conn.
Microlin: Dehls & Stein, Newark, N.J., alkaline disinfectants.
Micromanipulators: Microchemical Specialties Co., Berkeley, Calif., for microscopic work.
Micromax: Leeds & Northrup Co., Phila., Pa., recorders.
Micromet: Calgon Inc., Pittsburgh, Pa., corrosion inhibitor.
Micro-Mica: The English Mica Co., Stamford, Conn., mica.
Micro-Nix: Phoenix Chem. Co., Phoenix, Ariz., microfine insecticides.
Micronized: The Micronizer Co., Moorestown, N. J., insecticides and fungicides.
Micron-ized-Air Spun: Joseph Dixon Crucible Co., Jersey City, N. J., graphite.
Micro Nu-Cop: Facey & Besthoff Inc., N. Y. C., fungicide.

MICROSCOPES 672
POLARIZING 673
Microseal: Southern Mica Co., Johnson City, Tenn., mica.
Micro-set: Precision Scientific Co., Chicago, Ill., thermo regulator.
Microsil: Standard Silica Corp., Chicago, Ill., ground silica.
Microsmic Salt see Sodium Ammonium Phosphate
Microvac: F. J. Stokes Machine Co., Phila., Pa.
Microvet: F. J. Stokes Machine Co., Phila., Pa.
Midget: Precision Scientific Co., Chicago, water still.
Midland: Dow Chem. Co., Midland, Mich., vat dyes.
Midnite Black: V.E.P. Co., Detroit, Mich., lacquer.
Midophate: Emulsol Corp., Chicago, Ill., dental detergent.
Mike: Dow Chemical Co., Midland, Mich., sulfur.
Mikobbite: G. Frederick Smith Chem. Co., Columbus, O., oxidant.
Mikro: Pulverising Machinery Co., Summit, N. J., pulverizer.
Mikro-Samplmill: Pulverizing Machinery Co., Summit, N. J.
Milban: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., anti-mildew agt.
Milbar: Milwhite Co., Houston, Texas, barytes.
Mildewcide: James Bute Co., Houston, Texas, mildew inhibitor.
Milkote: Zophar Mills Inc., B'klyn., N. Y., enamel.
MILDEW PREVENTIVES TEXTILE 548
Milk of Lime see Lime Hydrate
Milkstone Remover: Amalgamated Chemical Corp., Phila., Pa., dairy cleanser.
Milk of Sulfur see Sulfur Precipitated
Millcot: Esso Standard Oil Co., N. Y. C., lubricating oils.
Millers' Relief: Huntington Labs., Inc., Huntington, Ind., weed killer.
Millical Brand: Diamond Alkali Co., Pure Calcium Prods. Div., precip. calcium carbonate.
Milling Compounds (Rubber) see Rubber Compounding Materials
Mill-Kill: Cabell Chemical Co., Huntington, W. Va., grain fumigant.
Mills-Form: Zophar Mills Inc., B'klyn, N. Y., disinfectant.
MILLS, ATTRITION 672
BALL 673
BATCH, CONTINUOUS 673
BURR 673
CHASER 673
COLLOID 673
DISK 673
DRY COLOR 673
FLAKING 673
GRINDING 673
HAMMER 673
HOG 673
INK 673
JACKETED BALL 673
JAR 673
LABORATORY 673
PAINT 673
PASTE 674
PELLET 674
PUG 674
ROD 674
ROLLER 674
RUBBER 674
STONE 674
TUBE 674
TUMBLING 674
Mill-o-Cide P-5: Midland Labs., Dubuque, Iowa, insecticides.
MILORI BLUE 299
Milstarch: Milwhite Co., Houston, Texas, starch.
Mimosa Bark see Wattle Bark
Minalith: Amer. Lumber & Treating Co., Chicago, Ill., lumber, treated with fire-resistant chemicals.
Mine Explosives see Explosives Mine and Quarry
MINERAL BLACK 299
Butter see Antimony Chloride
Carbon see Graphite
Fat see Petrolatum
Green see Copper Arsenite and Copper Carbonate
Hamburg see Copper Carbonate Blue
Pitch see Asphaltum
Rouge see Iron Oxide Red
RUBBER 299
Spirits see Petroleum Ether
Wax see Wax Ozokerite and Wax Ceresin
Mineralkote: Mineralite Sales Corp., N. Y. C., mold and core wash.
MINING SALTS 299
Minium see Lead Oxide Red
Minpro & Oxford: United Feldspar & Mins Corp., N.Y.C., feldspar.
Minralex: Binney & Smith Co., N. Y. C., filler for paint, rubber & floor covering.
Mint: Stering Pt. & Varnish Co., Malden, Mass., paint remover.
Minute Man: Pyrene Mfg. Co., Newark, N. J., fire extinguisher.
Mirasol: C. J. Osborn Co., N.Y.C., syn. resin.
Miravar: C. J. Osborn Co., N. Y. C., wrinkle.
Mirodized: Colonial Alloys Co., Phila., Pa., aluminum wire
Mirolac: National Chemical Co., Los Angeles, Calif., shellacs.
Miroto: Gotham Ink & Color Co., L. I. City, N. Y., naphtha gravure inks.
Mirrodipped: Colonial Alloys Co., Phila., Pa., aluminum forms.
Mirro-lac: National Chemical Co., Los Angeles, Calif., liquid shellac.
Mismo-Beeswax: International Wax Refg Corp., B'klyn, N.Y., syn. beeswax.
Missabe: Amer. Brake Shoe Co., Chicago Heights, Ill., power shovel dippers.
Mistox: Agkem Inc., Quincy, Ill., insecticide.
Miteo: Hendrick Mfg. Co., Carbondale, Pa., grating.
Mite-o-cide: Plan-tary Chem. Co., Creve Coeur, Mo., miticide.
Mites: John Sunshine Chem. Co., Inc., Chicago, Ill., oil-cutting.
Miter: John Sunshine Chem. Co., Inc., Chicago, Ill., pipe joint compd.
Mitis Green see Copper Acetoarsenite
Mittler's Green see Guignet's Green
Mixco: Mixing Equipment Co., Inc., Rochester, N.Y., agitators.
Mixed Acid see Acid Mixed
Amyl Chlorides see Amyl Chloride
Fibre Dyes see Dyes Union
Toluidines see Toluidines Mixed
Xylidines see Xylidines Mixed
Mixend: Arcos Corp., Phila., Pa., electrodes.
MIXERS 674
AIR DRIVEN 674
BATCH 674
CAGE BEATER 674
MIXERS (cont'd)
CHANGE CAN 674
CONE 674
CONTINUOUS 675
DISC 675
DRY POWDER 675
GAS AIR 675
GATE 675
HEATED STEAM JACKETED 675
LABORATORY 675
LIQUID 676
PADDLE 676
PORTABLE 676
PRESSURE AND VACUUM 676
PROPELLER 676
RADIAL PROPELLER 676
REVOLVING DRUM 676
RUBBER LINED 676
SIDE ENTERING 676
STEAM & WATER 676
TOP ENTERING 676
TUMBLING 676
TURBINE 676
Mkayo: Mears-Kane-Ofeldt Inc., Philadelphia, Pa., boilers.
M.L.S.: Paisley Prods., Inc., Chicago, Ill., mucilage.
Model: Port Huron Detergent Co., Port Huron, Mich., detergents.
Model SC: Circo Products Co., Cleveland, O., vapor degreasers.
Modex: The Reardon Co., St. Louis, Mo., casein paint.
Modulex: J. M. Huber Corp., N.Y.C., carbon black.
Modx: C. P. Hall Co., Akron, O., activator.
Mogul: N. Amer. Fibre Products Co., Cleveland, O., boiler cleaner.
Mohawk: Magnus, Mabee & Reynard, N.Y.C., peppermint oil.
Mohawk: Ind. Chem. Sales Div., West Va. Pulp & Paper Co., N.Y.C., alcohol solvent.
Mohr's Salt see Ferrous Ammonium Sulfate
Moist-o-Graph: Minn Honeywell Regulator Co., Philadelphia, Pa., for measuring moisture content.
Moistol: Standard Chem. Products, Inc., Hoboken, N. J., penetrator.
Moisturimeter: Scientific Glass Apparatus Co., Inc., Bloomfield, N. J., moisture determining apparatus.
Moldcoats: Foundary Service Inc., N.Y.C., for sand molds.
MOLD PREVENTIVES 549
MOLDING Lubricants see Lubricants Plastic Mold
Plastics see Molding Powders
POWDERS PLASTIC 549
Mold Kote: Mahoning Paint Corp., Youngstown, O., ingot mold coating.
Mold-proof: Planetary Chem. Co., Creve Coeur, Mo., fungicide for leather.
Mollescal: General Dyestuff Corp., N.Y.C., soaking agent for leather.
Molonite: Charles B. Chrystal Co. Inc., N.Y.C., optical polishing compd.
MOLYBDENUM 299
Anhydride see Acid Molybdic
Color Lakes see Lakes Color Molybdenum
Powder see Metals, Powdered
Trioxide see Acid Molybdic
MOLYBDIC Anhydride see Molybdic Oxide
OXIDE 299
Trioxide see Molybdic Oxide
Mo-Mang: Amer. Brake Shoe Co., Chicago Heights, Ill., electrodes.
Monarch: Hewitt Rubber Div., Buffalo, N. Y., acid hose.
MONAZITE 299
MONEL METAL 299
Monend: Arcos Corp., Philadelphia, Pa., electrodes.
Monitor: Stephens-Adamson Mfg. Co., Aurora, Ill., car pu'lers.
Mono Goggle: Willson Products Inc., Reading, Pa., plastic eye protector.
Monoacetin see Acetin
Monoamino Monophosphatide see Lecithin
Mono-Ammonium Phosphate see Ammonium Phosphate Mono
MONOAMYL AMINE 300
Monoanhydro Sorbitol see Sorbitan
Mono-basic Calcium Phosphate see Calcium Phosphate Monobasic
Monobel: Du Pont Co., Explosives Dept., Wilmington, Del., explosives.
MONOBENZYL-PARA-AMINOPHENOL 300
MONOBENZYL SUCCINATE 300
Monobloc: Worthington Pump & Machinery Corp., Harrison, N. J., pump-and-motor unit.
Monobrombenzene see Brombenzene
Monobromoethane see Ethyl Bromide
n-MONOBUTYLAMINE 300
MONO-tert-BUTYL-m-CRESOL 300
Monochloracetic Ether see Ethyl Monochloroacetate
MONOCHLORBENZENE 300
MONOCHLORODIFLUOROMETHANE 300
MONOCHLORHYDRIN ALPHA 300
Monochloroethane see Ethyl Chloride
MONOCHLOROTOLUENE 300
Monochrome: General Dyestuff Corp., N.Y.C., mordant acid dye.
Monocol: Wyandotte Chems. Corp., Wyandotte, Mich., mono-olefin glycol.
MONOETHANOLAMINE 300
Monoethyl Acid Orthophosphate see Ethyl Acid Phosphate
MONOETHYLAMINE 301
MONOETHYLANILINE 301
Monofrax: Carborundum Co., Perth Amboy, N. J.
Monofyx: Linick Chem. Co., Chicago, Ill., electro-cleaner.
Monoiodoethane see Ethyl Iodide
MONOISOPROPANOLAMINE 301
Mono-Line: Quigley Co., Inc., N.Y.C., plastic fire brick.
Monomeric Liquid see Methyl Methacrylate
MONOMETHYLAMINE 301
Monomethylaniline see Methyl Aniline
MONOMETHYL PARA AMINOPHENOL SULFATE 301
Mononitrochlorbenzene see Chlornitrobenzene Para and Meta
Mononitrotoluene see Nitrotoluene
Monopeen: Interchemical Corp., Newark, N. J., finisher
Monopentek: Heyden Chem. Corp., N. Y. C., monopentaerythritol.
Monopol Brilliant Oil: Gen'l Dyestuff Corp., N.Y.C., dyeing asst. & finishing oil.
Monopole Oil: Jacques Wolf & Co., Passaic, N. J., sulphonated castor.
Monoset: Bristol Co., Waterbury, Conn., controller.
Mono Sodium Diethylbarbiturate see Sodium Barbitol
Mono-Sodium Glutamate see Sodium Glutamate Mono
Mono-Sodium Orthophosphate see Sodium Phosphate Mono-sodium
MONOSTEARIN 301
Monosulph: Nopco Chem. Co., Harrison, N.J., sulf. castor oils.
Mon-ox: Chem. Enging. Sales Co., Chicago, Ill., rust inhibitor.

Mon-ox: Chem. Mfg Sales Co., Chicago, Ill., water filter treatment.
MONTAN 301
Mon-Seal: Montgomery Bros. Inc., Philadelphia, Pa., protective coating.
Monty Wax: Witco Chem. Co., N. Y. C., shellac substitute.
Moonsheen: Schuylkill Chemical Co., Philadelphia, Pa., peroxide.
Mordant Salt see Aluminum Acetate Basic
MORDANTS, TEXTILE 549
Morecrop: The Moores Lime Co., Springfield, O., agricultural lime.
Morglow: Andrew Brown Co., Los Angeles, Calif., lacquers.
Morlac: Westvaco Chem. Corp., N. Y. C., premium cleaner.
Mornop: Esso Standard Oil Co., N. Y. C., oil soluable cutting oil bases.
MORPHOLINE-2,4-DICHLOROPHENOXYACETATE 301
Morrhua Oil see Oil Cod Liver
Morro: Swift & Co., Chgo., powdered soap.
Mort-Alrset: Walsh Refractories Corp., St. Louis, Mo., high cement.
Mortar Color see Colors Cement
Stains see Stains Cement
MORTORS HIGH TEMPERATURE 676
Mortarmix: Laclede-Christy Co., St. Louis, Mo., cement.
Moskene: Givaudan-Delawanna, Inc., N.Y.C., synth. musk.
Mosley: Stephens-Adamson Mfg. Co., Aurora, Ill., mills, attrition type.
MOSS Green see Copper Acetoarsenite
IRISH 301
Bunker Oil see Oil Menhaden
Mothalene: Keppers Co., Pitsbgh., moth repell.
Moth-Aseptic: Perm-Aseptic Corp., Mamaroneck, N. Y., mothproofing agent.
MOTH PROOFING COMPOUNDS 549
Mothex: Dixie Disinfecting Co., Dallas, Texas, moth spray.
Mothomat: Uncle Sam Chemical Co., Inc., N.Y.C., moth preventative.
Moth-San: Huntington Labs., Huntington, Ind., mothproofer.
Motletone: Mass & Waldstein Co., Newark, N.J., finishes.
Motoreducer: Falk Corp., Milwaukee, Wisc.
Motor Flex: Flexoid Prods. Inc., Boston, Mass., for cleaning engines.
Motor-Matic: Precision Scientific Co., Chicago, power driven grease worker.
MOTORS, A. C. 676
AIR 676
D. C. 676
ENCLOSED FAN COOLED 676
EXPLOSION PROOF 677
SPLASH PROOF 677
SYNCHRONOUS 677
Motosteel: Taylor Instrument Co., Rochester, N. Y., air-operated valve motor.
Mountain Cork see Asbestos
Green see Copper Carbonate
Verditer see Copper Carbonate Blue
Mountain: Mountain Copper Co., San Fran., copper carbonate & sulfate.
Mt. U: North Amer. Refractories Co., Cleveland, O., silica brick.
Mount Vernon: North American Refractories Co., Cleveland, O., silica brick.
Moviestone: Zapon Div., Atlas Powder Co., Stamford, Conn., lacquers, thinners.
Moytol: Stand. Chem. Prods., Inc., Hoboken, N.J., penetrator.
Moyno "Progressive Cavity": Robbins & Myers, Inc., Springfield, O., pumps.
MR: Link-Belt Co., Indianapolis, class roller chain.
M. S.: Link-Belt Co., Indianapolis, malleable iron buckets.
Mrco: Metals Refining Co., Hammond, Ind., copper, lead and iron.
Mucronata see Mangrove Bark
Mud: Link-Belt Co., Phila., screens.
Mugantheme: Firmenich & Co., N. Y. C., chem. spec.
Mugol: Du Pont Co., Fine Chem. Div., Wilmington, perfume base.
Mulcrete: Ironton Fire Brick Co., Ironton, O., castable refractory.
Mullerax: Carborundum Co., Perth Amboy, N. J.
Mullfrax: Carborundum Co., Perth Amboy, N. J., refractories.
Mullitex: Walsh Refractories Corp., St. Louis, Missouri, high cement.
Mulsoid: Colloids Inc., Newark, N. J., emulsification base.
Mulsors: Synthetic Chemicals Inc., Paterson, N. J., emulsifiers.
Multibraid: Multi Metal Wire Cloth Co., Inc., N.Y.C., filter cloth.
Multi-Cast: Multi-Mold Products, N.Y.C., polysulfide rubber.
Multicide: McLaughlin Gormley King Co., Minneapolis, Minn., DDT products.
Multiclone: Western Precipitation Corp., Los Angeles, Calif., dust collectors.
Multi-Duty: Amer. Air Filter Co., Louisville, Ky., automatic air filter.
Multifex: Diamond Alkali Co., Cleveland, Ohio, calcium carbonate.
Multiflex: Speer Carbon Co., St. Marys, Pa., brushes.
Multifilm L: Colloidal Products Corp., San Francisco, Calif., spreader.
Multigrip: Carnegia-Ill. Steel Corp., Pittsburgh, Pa., floor plate.
Multileaf: Multi Metal Wire Cloth Co., Inc., N.Y.C., filter leaf.
Multi-matic: Delaval Separator Co., N. Y. C., separators.
Multimet: Haynes Stellite Co., Kokomo, Ind., alloys.
Multi-Outlet Strip: Eberbach & Son Co. Inc., Ann Arbor, Mich., strip case.
Multiplate: Pittsburgh Plate Glass Co., Pittsburgh, Pa., bullet resisting glass.
Multi-Tier: J. W. Greer Co., Cambridge, Mass., conveyor.
Multitwist: Multi Metal Wire Cloth Co., Inc., N.Y.C., cabled screens.
Multi-V: Worthington Pump & Machinery Corp., Harrison, N. J., power transmission drives.
Multi-Vator: Beaumont Birch Co., Philadelphia, Pa., bucket elevator.
Multi-Wash: Claude B. Schneible Co., Detroit, Mich., dust removers.
Multiwax: Petroleum Specialties, Inc., N. Y. C., micro-crystalline waxes.
Munn: Newport Industries, Inc., N. Y. C., soda treated rosin.
Muntan: Esso Standard Oil Co., N. Y. C., aluminum soap grease.
Muomix: Nuodex Prods. Co., Inc., Elizabeth, N. J., wetting aid.
Murco: D. J. Murray Mfg. Co., Wausau, Wisc., steel fittings.
Muriate see Quinine Hydrochloride
Muriatic Ether see Ethyl Chloride
Murillo Bark see Soap Bark
Muro-Rez: H. Adler & Son, Phila., Pa., textural paint.
Murphy: Phoenix Oil Co., Cleveland, O., soaps and cleansers.
Muse Zibata: Givaudan-Delawanna, N. Y. C., natural musk from muskrat.
Muscovite see Mica
MUSK NATURAL 301
KETONE 301
SYNTHETIC 302
Mussini: M. Grumbacher, N.Y.C., artists' colors.
Muthmann's Liquid see Acetylene Tetrabromide
Muvit: Sterling Paint & Varnish Co., Malden, Mass., paint remover.
"Mycoban": E I du Pont de Nemours & Co., Ammonia Dept., Wilmington, Del., calcium and sodium propionates.
Mylase: Wallerstein Co. Inc., N.Y.C., enzyme.
Myrj: Atlas Powder Co., Wilmington, Del., emulsifiers.
MYROBALAN EXTRACT 302
Myrrh see Gum Myrrh
Myrtlewax see Wax Bayberry
MYRISTLE BROMIDE 302
Mystic: Kehew Bradley Co., Boston, Mass., fat liquors.
Mytee Bond: Siomons Labs., Inc., L. I. City, N. Y., adhesive.
Myvacene: Distillation Prod. Industries, Rochester, N. Y., silicone grease.
Myva-Dry: Distillation Prod. Industries, Rochester, N. Y., vitamin A powder.
Myvalube: Distillation Prod. Industries, Rochester, N. Y., instrument lubricant.
Myvane: Distillation Prod. Industries, Rochester, N. Y., pump fluid.
Myvapack: Distillation Products Industries, Rochester, N. Y., vitamin A concentrate.
Myvarine: Distillation Prod. Industries, Rochester, N. Y., shark liver oil.
Myvawax: Distillation Prod. Industries, Rochester, N. Y., wax.
Myvax: Distillation Prod. Industries, Rochester, N. Y., synthetic Vitamin A.
Myverol: Distillation Prod. Industries, Rochester, N. Y., monoglycerides.
Myvoil: Distillation Prod. Industries, Rochester, N. Y., pump fluid.

N

#1019N: Keystone Filler & Mfg. Co., Muncy, Pa., calcined shale.
"N": Philadelphia Quartz Co., Phila., Pa., low alkalinity silicate.
NC: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., soil comp.
NCG: National Cylinder Gas Co., Chicago, Ill., gases.
N. D. G. A. Antioxidant: Stange Co., Chicago, Ill., rancidity inhibitor.
NER: Egyptian Lacquer Mfg. Co., N. Y. C., protective coatings.
NFL: Du Pont Co., Finishes Div., Wilmington, Del., wood stains.
"NFR": Egyptian Lacquer Mfg. Co., South Kearney, N.J., syn. resin base.
N-M-D: Lunkenheimer Co., Cincinnati, O., valves.
NNO: Atlas Powder Co., Wilmington, Del., agricultural parasiticide.
NNOP: Atlas Powder Co., Wilmington, Del., agricultural parasiticidal.
NR-70: Velsicol Corp., Chicago, Ill., for mosquito abatement.
NSAE: Onyx Oil & Chem. Co., Jersey City, N. J., wetting agent.
NSC: Stauffer Chem. Co., N. Y. C., alkaline detergent.
NYQ: H. R. Larat Co., San Fran., Calif., potassium iodide mixed.
Nacap: R. T. Vanderbilt Co. Inc., N. Y. C., metal corrosion preventive.
Nacco: National Chemical Co., Los Angeles, Calif., detergents.
Nacconol: Central O-B Products Co., Inc., Buffalo, N. Y., synthetic detergent.
Naccosol: National Chemical Co., Los Angeles, Calif., wetting agent.
Nacoat: National Chemical Co., Los Angeles, Calif., rubber based coating.
Nacromer: Mearl Corp., N.Y.C., nacreous pigment.
Nafo: Braun-Knecht-Heimann Co., San Fran., Calif., cleaners.
Nairoil: National Airoil Burner Co., Phila., Pa., oil burners.
Nakta: Esso Standard Oil Co., N. Y. C., mine car greases.
Nalco: Nat'l Aluminate Corp., Chgo., water treatment chemicals.
Nalcoag: Nationals Aluminate Corp., Chicago, Ill., colloidal silica sol.
Nalcolite: Nat'l Aluminate Corp., Chgo., zeolites.
Nalcometer: National Aluminate Corp., Chicago, Ill., elec. conductivity device.
Namel: Windsor Wax Co. Inc., Hoboken, N. J., cleaner & wax.
Namico: Nat'l Milling & Chem. Co., Philadelphia, Pa., soap.
Namil: Nat'l Milling & Chem Co., Philadelphia, Pa., textile soap.
NAPHTHALENE 302
1,3-Naphthalenediol see Naphthoresorcinol
Naphthalidine see Naphthylamine and Alphanaphthylamine
Naphthalin see Naphthalene
Naphthanil: Du Pont Co., Dyestuffs Div., Wilmington, Del., diazo colors.
Naphthas see Petroleum Ether and all its synonyms
NAPHTHAS AROMATIC 303
BLENDING 303
CLEANERS' 303
COAL TAR 304
HYDROGENATED 304
ROSIN 304
STRAIGHT RUN 304
V. M. & P. 304
NAPHTHENIC ACID SALTS 304
Naphthol (B or P) see Beta-Naphthol
a-NAPHTHOL 304
b-NAPHTHOL 304
a-NAPHTHOLPHTHALEIN 304
NAPHTHORESORCINOL 305
Naphthosol: Amer. Cyanamid Co., N Y. C., dyestuffs.
NAPHTHYLAMINE 305
a-NAPHTHYLAMINE 305
b-NAPHTHYL SALICYLATE 305
a-NAPHTHYL THIOUREA 305
Naples Yellow see Lead Antimoniate
Napsol: E. F. Drew & Co., Inc., N. Y. C., detergent.
Naptenes: Aromatic Prods., Inc., N.Y.C., deodorant for napthalene.
Napterge: Maher Color & Chem. Co., Chicago, Ill., scouring agt.
Naptholc: E. F. Drew & Co., Inc., N. Y. C., detergent.
Narco 68: North Amer. Refractories Co., Cleveland, O., refractory brick.
Narcocrete: North Amer. Refractories Co., Cleveland, O., insulating refractory.
Narcoil: National Research Corp., Cambridge, Mass., pump fluid.
Narcoline: North Amer. Refractories Co., Cleveland, O., ladle linings.
Narcoset: North American Refractories Co., Cleveland, O., high temp. cement.
Narobin: Glyco Prods. Co., N.Y.C., veg. gum.
Narpsolv: C. P. Chem. Solvents, Inc., N.Y.C., blended naphtha.
Nasco: National Soap & Chem. Co., Minneapolis, Minn., soap flakes.
Nasco: National Solvent Corp., Cleveland, O., thinner.
Natac: J. M. Huber Corp., N.Y.C., bloom inhibitor.
"National": E I du Pont de Nemours & Co., Ammonia Dept., Wilmington, Del., anhydrous ammonia.
National: Metal Hose & Tubing Co., Dover, N. J., hose.
National: The Pannier Corp., Pittsburgh, Pa., rubber type.
National Bentonite: Baroid Sales Div., Nat'l Lead Co., Los Angeles, Calif.
Native Paraffin see Wax Ozokerite
Natex: Vicker Chem. Wks., Chicago, Ill., sodium oxalate.
Natrium see Sodium Metal
Natural: Jensen & McClelland, Chicago, Ill., gums-varnish.

Natural Dyestuffs see Dyes Natural
Erythrine see Cobaltous Arsenate
Fruit Flavors see Flavors Fruit Natural
Natural Gas Black see Carbon Black
Water Dispersions of Rubber see Latex
Nangaromes: Naugatuck Aromatics Div., U. S. Rubber Co., N.Y.C.
Nangatex: Naugatuck Chemical Div., U. S. Rubber Co., Naugatuck, Conn., water dispersion.
Naval Stores see Gum Rosin; Turpentine Gum; Turpentine Steam Distilled; Oil Rosin Wood; Oil Pine; etc.
Navalite: Du Pont Co., Finishes Div., Wilmington, Del., varnish.
Navee '42: Penetone Co., Tenafly, N. J., degreaser.
Naxonate: Wyandotte Chems. Corp., Wyandotte, Mich., sodium xylenesulfonate.
Nealco: New England Alcohol Co., Boston, Mass., anti-freeze.
Neantine: Givaudan-Delawanna, Inc., N.Y.C., diethyl pathalate.
Neats Oil: Webb Belting Co., Kansas City, Mo., belt dressing.
Nebony: Neville Co., Pittsburgh, Pa., synthetic resin.
Nebula: Esso Standard Oil Co., N. Y. C., aluminum base greases.
Neclac: Fiber Chem. Corp., Matawan, N. J., shellac replacement.
Nectarome: Dodge & Olcott Co., N.Y.C., flavor.

NEETOL: The Martin Dennis Co., Div. of Diamond Alkali, 859 Summer Ave., Newark 4, N. J. Humboldt 3-2874

Neutral fat liquor of high quality pure Neatsfoot oil base, especially designed to impart to calf and side leathers the full round character so much desired, together with the mellowness and strength necessary for shoe uppers.

Necton: Esso Standard Oil Co., N. Y. C., solvent refined oils.
Neetol: Martin Dennis Co., Newark, N.J., fat liquor.
Nekal: Gen'l Dyestuff Corp., N.Y.C., wetting and dispersing agent.
Nekal BX: Gen'l Dyestuff Corp., N.Y.C., rub. antioxidant.
Nello: Glidden Co., Naval Stores Div., Jacksonville, Fla., gum rosin.
Nemafume: Eaton Chemicals, Inc., Los Angeles, Calif., soil fumigant.
Neoben: Atlas Mineral Prods. Co., Mertztown, Pa., rubber lining.
Neocement: Fiber Chem. Corp., Cliffwood, N. J., latex cement.
Neocsta: Pittsburgh Plate Glass Co., Pittsburgh, Pa., synthetic bristle.
NEOCINCHOPHEN 305
NEODYMIUM CARBONATE 305
NITRATE 305
OXALATE 305
Neochemosol: Chemo Puro Mfg. Corp., L. I. City., N. Y., fruit preservative.
Neochrome: Fiber Chem. Corp., Cliffwood, N. J., tanning materials.
***Neocstone:** Ciba Co., Inc., N.Y.C., dyes.
Neo-Germolyptus: Midland Labs., Dubuque, Iowa, hospital germicide.
Neogloss: Fiber Chem. Corp., Cliffwood, N. J., leather finishes.
NEOHEXANE 305
Neolac: U. S. Stoneware Co., N. Y. C., coatings.
Neolene: Sharples-Continental Corp., Phila., Pa., hydrocarbons.
Neolyn: Hercules Powder Co., Wilmington, Del., syn. resin.
Neomerpin: Du Pont Co., Fine Chems. Div., Wilmington, Del., processing agt.
NEON 305
Neon: Wright-Austin Co., Detroit, Mich., illuminator.
Neonaphthol: Maher Color & Chem. Co., Chicago, Ill., levelling agts.
NEOPENTANE 305
Neopol: Ultra Chemical Works, Inc., Paterson, N. J., finishes.
Neopon: Foy Electro-Chem. Co., Ansonia, Conn., syn. burnishing comp.
Neopone: Ultra Chemical Works, Inc., Paterson, N. J., surface active agents.
Neorote: Gotham Ink & Color Co., L. I. City, N. Y., lacquer gravure inks.
Neosapon: Fiber Chem. Corp., Cliffwood, N. J., syn. detergents & emulsifiers.
Neo-Shine: Huntington Labs., Huntington, Ind., floor wax.
Neosote: Protexol Corp., Kenilworth, N. J., wood preservatives.
Neosuds: Wyandotte Chems. Corp., Wyandotte, Mich., detergent.
Neotolyl: General Dyestuff Corp., N. Y. C., acid dye.
Neowax: Fiber Chem. Corp., Cliffwood, N. J., sponging compounds.
Neo Wet: Fiber Chemical Corp., Cliffwood, N. J., wetting agent.
Neowet: Royce Chem. Co., Carlton Hill, N. J., wetting agent.
Neo White: Fiber Chemical Corp., Cliffwood, N.J., whitening agent.
Neozone: Du Pont Co., Rubber Chems. Div., Wilmington, Del., antioxidant.
Neozyme: Royce Chem. Co., Carlton Hill, N. J., desizing enzyme.
NEPHELOMETERS 677
Neptune: Gen'l Dyestuff Corp., N.Y.C., acid dye.
Nerol: General Dyestuff Corp., N. Y. C., acid dye.
NEROLIN 305
Nerosol: Dow Chemical Co., Midland, Mich., aromatic chem.
Nettco: New England Tank & Tower Co., Everett, Mass., agitating machinery.
Neutjelsize: C. B. Hewitt & Bros., Inc., N. Y. C., sizing.
Neutra-Gas: Park Chemical Co., Detroit, Mich., salt bath rectifier.
Neutraglas: Owens-Illinois Glass Co., Toledo, O., resistant glass.
Neutral Ammonium Phosphate see Ammonium Phosphate Tri
Magnesium Phosphate see Magnesium Phosphate
Neutra-Lustre: Standard Chem. Works Co., Columbus, O., for rug cleaners.
Neutrigan: General Dyestuff Corp., N. Y. C., fixing and leveling agent for leather.
Neutroleum: Fritzsche Bros., N.Y.C., gen. deodorant.
Neutronyx: Onyx Oil & Chem. Co., Jersey City, N. J., emulsifying agts.
Neutropher: Carlton Chem. Co., Inc., N. Y. C., laundry sour.
Neutroscent: Fritzsche Bros. Inc., N. Y. C., odor neutralizer.
Neva-Clog: Rockwell Co., W. S., Fairfield, Conn., filter media.
Nevasota: Neville Co., Ptsbgh., wood preserv.
Neverdust: Jno. C. J. Snyder & Sons Inc., Phila., Pa., sweeping. comp.
Never-Sever: Chemical Corp., Springfield, Mass., solder flux.
Nevillac: Neville Co., Ptsbgh., syn. resin.
Nevindene: The Neville Co., Pittsburgh, Pa., syn. resin.
Nevinol: Neville Co., Ptsbgh., solvent oil.
Nevin's White see Lithopone
Nevoll: Neville Co., Ptsbgh., rub. softener.
Nevtar: The Neville Co., Pittsburgh, Pa., tar paint.
Nevtex: The Neville Co., Pittsburgh, Pa., plasticized syn. resin.
New Green see Copper Acetoarsenite
New Process: Sheffield Farms Co., Inc., Norwich, N. Y., casein.
New Star: Braden Sutphin Ink Co., Cleveland, O., printing inks.
Newtrolene: Martin Dennis Co., Newark, N.J., fat liquor.
Newvar: Penetone Co., Tenafly, N. J., floor seal.
Niagara: Battelle & Renwick, Inc., N. Y. C., nitrite of soda.
Niagara: Buffalo Meter Co., Buffalo, N. Y., liquid meters.
Niagara: Keystone Emery Mills, Phila., Pa., abrasives.
Niagathal: Niagara Alkali Co., N.Y.C., tetrachloro phthalic anhydride.
Niaproof: Niacet Chemicals Div., Niagara Falls, N. Y., aluminum acetate.
Niatox: Niagara Chem. Div. Food Machinery Co., Middleport, N. Y., DDT.
NICKEL (Metal) 305
NICKEL ACETATE 305
AMMONIUM SULFATE see also Nickel Salts 305
Anodes see Anodes Metal and Alloy
Black see Nickel Oxide
BROMIDE 305
CARBONATE Basic 305
CHLORIDE 305
CYANIDE 305
FLUOBORATE 306
FLUORIDE 306
FORMATE 306
HYDROXIDE 306
IODIDE 306
LAURATE 306
NAPHTHENATE 306
NITRATE 306
OLEATE 306
OXIDE 306
Peroxide see Nickel Oxide
Plating Solutions see Electroplating Solutions also Salts Electroplating
POWDER 306
Protoxide see Nickel Oxide
SALTS 306
Double see Nickel Ammonium Sulfate
Single see Nickel Sulfate
STEARATE 307
SULFATE see see Nickel Salts 307
TITANIUM 307
Nickeland 811: Arcos Corp., Phila., Pa., electrodes.
Nickeite Hydroxide see Nickel Hydroxide
Nickelous Acetate see Nickel Acetate
Nickelous—Ammo-Sulfate see Nickel Salts Double
Borate see Nickel Borate
Carbonate see Nickel Carbonate Basic
Chloride see Nickel Chloride
Cyanide see Nickel Cyanide
Formate see Nickel Formate
Oxide see Nickel Oxide
Sulfate see Nickel Salts Single
Nicloy: Babcock & Wilcox Tube Co., Beaver F., Pa., pipe & tubing.
Nicos: Nicholson & Co., Cambridge, Mass., liquid glue.
Nico Bond: Nicholson & Co., Cambridge, Mass., resin adhesives.
Nicoline see Rotenone
Nicol Melt: Malcolm Nicol & Co., Hawthorne, N. J., coatings.
Nicol Seal: Malcolm Nicol & Co., Hawthorne, N. J., coatings.
NICOTINAMIDE 307
NICOTINE 307
SULFATE 307
Nicotinic Acid Amide see Nicotinamide
Nicotrol: Kay-Fries Chemicals, Inc., N. Y. C., insecticide carrier.
Nicuend: Arcos Corp., Phila., Pa., electrodes.
Niel-Coat: Nielco Chemicals, Detroit, Mich., rust preventative coating.
Nielite: Nielco Chemicals, Inc., Detroit, Mich., pickling acids.
Nigrantique: Zapon Div., Atlas Powder Co., Stamford, Conn., finishes and lacquers.
Nigrodull: Zapon Div., Atlas Powder Co., Stamford, Conn., finishes.
Nigrosine: General Dyestuff Corp., N.Y.C., acid dye.
Nigrorubber: Zapon Div., Atlas Powder Co., Stamford, Conn., finishes and lacquers.
Nikethamide see also Acid Nicotinic Diethylamide
NIKETHAMIDE 307
Nikson: Buckeye Chem. & Spec. Co., N. Y. C., non skinning compd.
Nil Alba see Zinc Oxide
Nilaton Finish: Commonwealth Color & Chemical Co., N. Y. C., hosiery finish.
Nil-Dust: Paxson Mfg., Co., Philadelphia, Pa., oil base.
Nile: General Dyestuff Corp., N.Y.C., basic dye.
Niles: Republic Steel Corp., Cleveland, O., steel drums.
Nionine: Amalgamated Chemical Corp., Phila., Pa., dyeing agent.
Niox: Du Pont Co., Explosives Dept., Wilmington, Del., ammonium nitrate.
Nipocera: General Wax Refining Co., N.Y.C., sub for Japan wax.
Nirodol: General Dyestuff Corp., N. Y. C., basic dye.

"NISSEN": John P. Nissen Jr. Co., Glenside, Pa.

Dye Resist, Bleach Proof, Caustic Proof Color Inks are used to mark fabrics, where permanent identification is required, from the time a piece of fabric leaves the loom, until it is finished in the Finishing Plant. These marks will resist soaping, washing, fulling, degumming, bleaching, dyeing, etc. For marking textiles in dye houses, bleacheries, textile mills, laboratories.

Niter see Potassium Nitrate
Cake see Sodium Bisulfate
Nitramex: Du Pont Co., Explosives Dept., Wilmington, Del., blasting agt.
Nitramon: Du Pont Co., Explosives Dept., Wilmington, Del., blasting agts.
Nitrate of Soda see Sodium Nitrate
Nitratine see Sodium Nitrate
NITRATORS, (see also Kettles Nitrating) 677
Nitrazol see Paranitraniline Red
Nitre Cake see Sodium Bisulfate.
Nitrex: Naugatuck Chemical Div., U. S. Rubber Co., Naugatuck, Conn., copolymers.
Nitric Acid see Acid Nitric
Ether see Ethyl Nitrate
NITRIDING COMPOUNDS 849
Nitrilomalonamide see Cyanoacetamide

m-NITROANILINE 308
o-NITROANILINE 308
p-NITROANILINE 308
p-NITROANILINE RED 308
NITROANISOLE 308
o-NITROANISOLE 308
Nitrobarite see Barium Nitrate
NITROBENZENE 308
Nitrobenzide see Nitrobenzene
Nitrobenzol see Nitrobenzene
m-NITROBENZOYL CHLORIDE 308
p-NITROBENZOYL CHLORIDE 308
o-NITROBIPHENYL 308
Nitrocol: C. J. Osborn Co., N.Y.C., pigment dispersion.
Nitrometer: Industrial Prods. Co., Phila., Pa., acid masks.
Nitron: Monsanto Chem. Co., Plastics Div., Springfield, Mass., cellulose nitrate sheets.
2-NITRO-1-BUTANOL 308
Nitrocalcite see Calcium Nitrate
NITROCELLULOSE see also Cellulose Nitrate SOLUTIONS 308
m-NITROCHLOROBENZENE 309
o-NITROCHLOROBENZENE 309
p-NITROCHLOROBENZENE 309
Nitrochloroform see Chloropicrin
Nitrochloromethane see Chloropicrin.
Nitrocol: C. J. Osborn Co., N.Y.C., lacq. base.
o-NITRODIPHENYL 309
NITROETHANE 309
2-NITRO-2-ETHYL-1, 3-PROPANEDIOL 309
Nitrogen Monoxide see Nitrous Oxide
Nitrolim see Calcium Cyanamide
NITROMETHANE 309
2-NITRO-2 METHYL 1, 3 PROPANEDIOL 309
2-NITRO 2 METHYL 1 PROPANOL 309
Nitrolin see Calcium Cyanamide
a-NITRONAPHTHALENE 309
1-Nitro-2,5-Nitrobenzene see 2,5-Dichloronitrobenzene
NITROPARAFFINS 309
o-NITROPHENOL 309
p-NITROPHENOL 309
1-NITROPROPANE 309
2-NITROPROPANE 309
Nitro-Seal: Varnilon Co., Burbank, Calif., plastic cement.
NITROGEN-GAS TETROXIDE 310
p-NITROSO DIMETHYLANILINE 310
n-NITROSO DIPHENYLAMINE 310
NITROSO-BETA-NAPHTHOL 310
Hydroxy-Naphthalene see Nitroso-Beta-Naphthol
Phenyl Hydroxylamine see Cupferron
NITROTOLUENE 309
m-NITROPARATOLUIDINE 309
o-NITRO TOLUIDINE 309
No Odo Cide: Cabell Chemical Co., Huntington, W. Va., food insecticide.
Nobac: Pennsylvania Dyestuff Co., Inc., Philadelphia, Pa., disinfectant.
No-Buff: S. C. Johnson & Son, Inc., Racine, Wis., wax.
No-Card: Park Chemical Co., Detroit, Mich., carburizing paint.
No-Chip: Scientific Glass Apparatus Co. Inc., Bloomfield, N. J., glass joints.
Nocorodal: Heil Process Equipment Corp., Cleveland, O., graphite devices.
No-Dor-Mix: F. G. Okie Inc., Philadelphia, Pa., odorless paint.
No Inferno: C. P. Hall Co., Akron, O., fire extinguisher.
Nogas: Du Pont Co., Grasselli Chem. Dept., Wilmington, metal pickling agt.
NoJoint: Ironton Fire Brick Co, Ironton, O., plastic refractory.
Nokarb: Edgar Brothers Co., Metuchen, N.J., ceramic clays.
No-Kase: Park Chemical Co., Detroit, Mich., carburizing paint.
No-Lab: Scientific Glass Apparatus Co. Inc., Bloomfield, N. J., finishing process.
Nomic: Sharples Chemical Inc., Philadelphia, Pa., surface active agents.
Nomold: H. Kohnstamm & Co., Inc., N. Y. C., mold preventive.
Non case: Case Hardening Service Co., Cleveland, O., anti carbonizing compd.
NONALDEHYDE 310
Non-Fer-Al: Diamond Alkali Co., Pure Calcium Prods. Division, Pitsbgh., calcium carbonate.
Nonisols: Alrose Chem. Co., Cranston, Prov., R. I., polyoxyalkylene esters.
Nonpareil: Du Pont Co, Finishes Div., Wilmington, Del., japan.
Non-scratch: Braden Sutphin Ink Co., Cleveland, O., printing inks.
Non-Spatter: Haviland Prods. Co., Grand Rapids, Mich., spatter preventive.
NONYL ALDEHYDE 310
NONYL BROMIDE 310
PHENOL 310
***No-odorol:** Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., sulphonated oils.
NO-OX-ID: Dearborn Chemical Co., Chicago, Ill., rust preventives.
Nopalcol: Nopco Chem. Co., Harrison, N.J., nonionic emulsifiers.
Nopax: Industrial Finishes Dept., Atlas Powder Co., Stamford, Conn., finishes.
Nopcob: Nopco Chem. Co., Harrison, N.J., emulsifying agt.
Nopcocastor: Nopco Chem. Co., Harrison, N.J., sulf. castor oil.
Nopcoced: Nopco Chemical Co., Harrison, N. J., fat liquoring oil.
Nopcocide: Nopco Chem. Co., Harrison, N.J., quaternary ammonium germicide.
Nopcogen: Nopco Chem Co., Harrison, N.J., fatty amides and amines.
Nopcol: Nopco Chem. Co., Harrison N.J., leath. sponging comp.
Nopcolene: Nopco Chem. Co., Harrison, N.J., leather antistick chem.
Nopcolin: Nopco Chem. Co., Harrison, N.J., condensor comp.
Nopcosorb: Nopco Chem. Co., Harrison, N.J., condenser comp.
Nopcov: Nopco Chem. Co., Harrison, N.J., text. finish.
Nopcowet: Nopco Chem. Co., Harrison, NJ., pigment dispersing & wetting agent.
Nopcowite: Nopco Chem. Co., Harrison. N.J., fatliquor.
No-Plug: Baker Industrial Truck Div., Cleveland, O., travel control.
Norane: Sun Chemical Corp., L. I. C., N. Y., water repellent.
Nor Bio: Northern Blower Co., Cleveland, O., collecting sys.
Nordsil: Norda Essential Oil & Chemical Co., Inc., N. Y. C., perfume bases.
Nordyke: Allis-Chalmers, Milwaukee, Wisc., mill machinery.
Norgeniter see Calcium Nitrate
Norgine see Acid Algic
Norit: Amer. Norit Co., Jacksonville, Fla., activated carbon.
Norlin: Falk & Co., Pittsburgh, Pa., linseed oil.
Normal Amyl Chloride see Amyl Chloride
Butyl Carbinol see Alcohol Amyl Normal
Butyl Ether see Butyl Ether Normal
Calcium Wolframate see Calcium Tungstate
Hexyl Ether see Ether Hexyl
Palmitic Acid Glycerin Ester see Palmitin
NORMAL SOLUTIONS 310
Normax: Owens-Illinois Glass Co., Toledo, O., glassware.
NorStar: Amer. Lanolin Corp., Lawrence, Mass., belt dressing.
Northwestern: Cutler-Magner Co., Duluth, Minn., salt.
No rub: Wilbert Prods. Co. inc., N. Y. C., polishes & waxes.
Norsol: Norman-Willets Co., Chicago, Ill., wetting agent.
Norwegian Saltpeter see Calcium Nitrate
No-Sal: Park Chemical Co., Detroit, Mich., salt bath.
Noscale: Flexoid Prods., Inc., Boston, Mass., for boiler water treatment.
No-Scale: Park Chem. Co., Detroit, Mich., protective coating.
NoSep: Wayne Chemical Products Co., Detroit, Mich., cutting lubricant.
NoSuds: Industrial Chem. Prods. Co., Phila., Pa., floor cleaner.
No-Tride: Park Chemical Co., Detroit, Mich., nitriding paint.
Nottingham Chiplets: Draper Soap Co., Pawtucket, R. I., textile soap.
Nova: Kehew-Bradley Co., Boston, Mass., neatsfoot oil.
Novacels: Nova Chem Corp., N. Y. C., dyestuff.
Novagens: Nova Chemical Corp., N. Y. C., rapidogens.
Novanol: Nova Chem Corp., N. Y. C.
Novelite: O'Neil Duro Co., Milwaukee, Wis., wood filler.
Novocaine see Procaine Hydrochloride
Novoform: Krayer Mfg. Co., Inc., Elizabeth, N. J., spotting fluid.
Novoviol: Fritzsche Bros. Inc., N. Y. C., ionone group of synthetics.
No-wax: Davies-Young Soap Co., Dayton, O., liq. dry cleaning soap.
Noxide: Pratt & Lambert, Inc., Buffalo, N. Y., metal paints.
Nox-Kwik No. 5 DDT: U. S. Sanitary Specialties Corp., Chicago, Ill., insecticide.
Nox-Soot: Saginaw Salt Prods. Co., Saginaw, Mich., coal soot remover.
Noxtane: Wyandotte Chems. Corp., Wyandotte, Mich., sap stain inhibitor.
Nox-tox: W. D. Carpenter Co. Inc., Syracuse, N. Y., insecticide.
Nozlector: Sharples Corp., Phila., Pa., centrifuge.
Nozzle-matic Delaval Separator Co., N. Y.. C., spearators.
NOZZLES, ATOMIZING 677
BLAST CLEANING 677
FOG 677
HARD RUBBER 677
HUMIDIFYING 677
MANHOLE 677
MIXING 677
SPRAY 677
SPRAY DRYING 677
STONEWARE 677
Nu Bond: Slomons Labs., Inc., L. I. City, N. Y., transparent cement.
Nu Kast: Nukem Products Corp., Buffalo, N. Y., chemical pumps.
Nu Spra Glu: J. J. Seifen Co., Detroit, Mich., glue & grain mixture.
Nuact: Nuodex Prods Co., Inc., Elizabeth, N. J., paint paste.
Nuade: Nuodex Prods. Co., Inc., Elizabeth, N. J., mill grinding aid.
Nu-Awn: Benjamin Foster Co., Phila., Pa., flameproof canvas coatings.
Nuba: Neville Co., Ptsbgh., resinous pitch.
Nu-Fab: Adhesive Products Corp, New York, N. Y., fabric paint.
Nu Glu: National Casein Sales, Chicago, Ill., liquid casein glue.
Nuglu. J. J. Siefen Co., Detroit, Mich., sodium silicate base.
NuGreen: Du Pont de Nemours & Co., Ammonia Dept., Wilmington, Del., fertiliser compound.
Nujelsis: C. B. Hewitt & Bros. Inc., N. Y. C., for acetate.
"Nukemite": Nukem Products Corp., Buffalo, N. Y., resin coating.
Nukemizing: Nukem Products Corp., Buffalo, N. Y., membrane application.
Nullafoam: General Dyestuff Corp., N. Y. C., foam killing agt.
Nu Mastic: Nukem Products Corp., Buffalo, N. Y., asphaltic membrane.
Nuodex: Colo & Degraf, San Francisco, Calif., paint additives.
Nullapon: General Dyestuff Corp., N.Y.C., water softening agent.
Nuolater Nuodex Products Co., Inc., Elizabeth, N. J., driers.
Nuremberg Red see Iron Oxide, Red
NuRexform: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., lead arsenate.
Nu-Spede: Lowe Bros. Co., Dayton, O., enamels.
Nuspragiu: J. J. Siefen Co., Detroit, Mich., buffing compound.
Nusuede: Eaton Chemical & Dyestuff Corp., Detroit, Mich., suede finish.
Nutgall Extract see Gall Extract
NUTGALLS 310
Nut Oil see Oil China Wood
Nuto: Esso Standard Oil Co., N. Y. C., light lubricating oils.
Nutricod: E. F. Houghton & Co., Phila., Pa., leather oils.
Nutrium: Wollen Chem. & Supply Co., Paterson, N. J., laundry dye.
Nutrosan: Nyanza Color & Chem. Co., Inc., N. Y. C., tex. detergent & wetting agent.
Nyanzol: Nyanza Color & Chem. Co., Inc., N. Y. C., fur dyes.
Nyasol: Nyanza Color & Chem. Co., Inc., N. Y. C., metallized dyes.
Nyco: N. Y. Color & Chem. Co., Belleville, N. J., dispersed pigment colors.
Nycol: N. Y. Color & Chem. Co., Belleville, N. J., dispersing agents.
Nycolene: N. Y. Color & Chem. Co., Belleville, N. J. wetting agents.
Nylac: General Wax Refining Co., N. Y. C., syn. shellac.
Nylosis: C. B. Hewitt & Bros. Inc., N. Y. C., for nylon.
Nytal: R. T. Vanderbilt Co. Inc., N. Y. C.. talc.
Nytron: Central O-B Products Co., Inc., Buffalo, N. Y., syn. detergent.
Nytron: Solvay Sales Div. Allied Chem. & Dye Corp., N. Y. C., syn. detergent
N-Z-Amine: Sheffield Farms Co., Inc., Norwich, N. Y., oral protein hydrolysate.
N-Z-Case: Sheffield Farms Co., Inc., Norwich, N. Y., lab. peptone.
N-Z-Tone: Sheffield Farms Co., Inc., Norwich, N. Y., lab. peptone.

O

O-B Cleaner: Central O-B Prods. Co. Inc., Buffalo, N. Y.
OBS: Zapon Div., Atlas Powder Co., Stamford, Conn., finishes and lacquers.
O-M Special: Fritzsche Bros. Inc., N. Y. C., odor modifier.
Oakes: Amer. Machine & Foundry Co., N. Y. C., automatic mixer.
Oakwood: Osborn Products, Glen Ellyn, Ill., soldering flux.
Oathophen: Sharples Chemical Co., Philadelphia, Pa., antho amyliphenol.
O'Boy: Wollen Chem. & Supply Co., Paterson, N. J., waterless hand soap.

Occonase L H: Onyx Oil & Chem Co., Jersey City, N. J., textile denizer.
Ocenol: Du Pont Co., Fine Chems. Div., Wilmington, Del., fatty alcohol.
OCHRES 310
Octab: Rhodes Chem. Corp., Plainfield, N. J., octadecyl dimethyl benzyl am. chloride.
Octachloro-4,7-Methano-Tetrahydroindane see Chlorodane
Octadecanol see Alcohol Stearyl
n-Octadecyl see Alcohol Stearyl
OCTADECYL BROMIDE 310
Octa-Klor: Julius Hyman & Co., Denver, Colo., chlordane.
Octanol-1 see Alcohol Octyl Normal, Primary
2-Octanol see Alcohol Octyl Normal Secondary
Octanol see Alcohol Octyl
Octanoyl Chloride see Caprylyl Chloride
Octasol: Harshaw Chem. Co., Cleveland, O., drier.
Octimet: Rhodes Chem. Corp., Plainfield, N. J., octadecyl dimethyl ethyl am. bromide.
Octoil: Distillation Products Industries, Rochester, N. Y., pump fluid.
OCTYL ACETATE 310
Alcohol see Alcohol Caprylic
Alcohol, Secondary see Octanol, Secondary
ALDEHYDE see also **2-Ethylhexaldehyde** 310
AMMONIUM PHOSPHATE 310
BROMIDE 310
CHLORIDE 310
DECYL PHTHALATE 310
DISULFIDE, Ditert 310
MERCAPTAN, Tert 310
PHENOXYETHANOL 310
STEARATE 311
Oderize: Per-Mo Prods. Co., Kansas City, Mo., refrigerator deodorant.
Odorex: Central Ill. Labs. Inc., Peoria, Ill., spray deodorant.
Odorid: Technical-Chemical-Corp., Bethel, Conn., deodorant.
Odor-Kil: Imperial Chem Co., Los Angeles, Calif., germicide.
Odorol-less: Planetary Chem. Co., Creve Coeur, Mo., wood preservative.
Odrex: Fritzsche Bros. Inc., N. Y. C., deodorant.
"Oda": Oliver United Filter Inc., N. Y. C., diaphragm slurry pumps.
Oesipos see Lanolin
Ohco: O. Hammel Co., Pittsburgh, Pa., creamic colors.
OIL ACETONE 311
Allspice see Oils Essential
ALMOND 311
Angelica see Oils Essential
ANISE 311
Aniseed see Oils Essential
APRICOT KERNEL 311
BABASSU 311
Banks see Oil Cod Liver
Bay see Oils Essential
BERGAMOT 311
Bland see Oil Almond
Bleach see Bleaches Oil
Blubber see Oil Whale
Body see Oil Whale
BONE 311
Bremoot see Oil Menhaden
Cajeput see Oils Essential
Calamus see Oils Essential
CAMPHOR 311
Caraway see Oils Essential
CASHEW NUT SHELL 311
CASSIA 311
CASTOR 312
CASTOR AMMONIATED 312
CASTOR DEHYDRATED 312
CASTOR, HYDROGENATED 312
CASTOR, PHOSPHATED 312
Cedar Leaf see Oils Essential
CEDARWOOD 312
Chamomile see Oils Essential
CHINA WOOD 312
Chinese see Oil Cassia
Chinese Bean see Oil Soya Bean
Chinese-Wood see Oil China Wood
Citrus see Oils Essential
Cinnamon see Oils Essential
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Cloth Fillers see Fillers Oilcloth
CLOVES 313
COCOANUT 313
Cocos see Oil Cocoanut
COD 314
COD LIVER 314
Coriander see Oils Essential
CORN 314
COTTONSEED 314
CRESOTE see also **Cresote, Coal Tar** 314
Cypress see Oils Essential
EGG YOLK 314
Eucalyptus see Oils Essential
FIR 314
Flaxseed see Oil, Linseed
FUSEL see also **Alcohol Amyl Normal** 314
Geranium see Oils Essential
Ginger see Oils Essential
Grapefruit see Oils Essential
Green see Chromium Oxide
Guaiacwood see Oils Essential
Hemp see Oil Hempseed
HERRING 315
Inhibitors see Inhibitors Oil
Japan Fish see Oil Sardine
Juniper see Oils Essential
Katchung see Oil Peanut
LARD 315
Lavender see Oils Essential
LEMON 315
Lemongrass see Oils Essential
LIME 315
Linen Seed see Oil Linseed
LINSEED 315
Liquid Patch see Creosote, coal tar
Lucca see Oil Olive
Maize see Oil Corn

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MANDARIN 315
MENHADEN 315
MINERAL 316
Mirbane see Nitrobenzene
Morrhua see Oil Cod Liver
Mossbunker see Oil Menhaden
Mustard see Oils Essential
MUSTARD SEED 316
NEATSFOOT 316
Niobe see Methyl Benzoate
OITICICA 316
OLIVE 316
ORANGE 316
PALM 316
PALM KERNEL 316
Paraffin see Oil Mineral
Patchouli see Oils Essential
PEANUT 316
Pear see Amyl Acetate
Pepitgrain see Oils Essential
PEPPERMINT 317
PERILLA 317
Persic see Oil, Apricot Kernel
Pimento see Oils Essential
PINE 317
Pine Needle see Oils Essential
Pine-tar see Oil, Tar
Pipe-Line Paints see Paints Gas Main
Pogy see Oil Menhaden
Poppy see Oil Poppyseed
POPPYSEED 317
Proof Rubber see Rubbers Synthetic
Pulp see Aluminum Acetate Basic
Rape see Oil Rapeseed
RAPESEED 317
RED 318
Ricinus see Oil Castor
Rose see Oils Essential
Rosemary see Oils Essential
ROSEWOOD 318
ROSIN 318
RUE 318
Sage see Oils Essential
SALMON 318
Sandalwood see Oils Essential
SARDINE 318
Sassafras see Oils Essential
SEAL 318
Seed see Oil Cottonseed
SESAME 318
Shark see Oil Shark Liver
SHARK LIVER 318
SHINGLE 319
Soja Bean see Oil Soya Bean
Soluble see Oil Turkey Red
Solvents see Solvents Fats and Oils
Soy see Oil Soya Bean
SOYA BEAN 319
Spearmint see Oils Essential
SPERM 319
Spike see Oils Essential
Spruce see Oils Essential
Stillingia see Oil Tallow
SULFONATED also see **Oil Turkey Red**
CASTOR 319
COCONUT 319
COD 320
NEATSFOOT 320
OLIVE 320
SPERM 320
TEASEED 320
SUNFLOWER 320
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Synthetic Wintergreen see Methyl Salicylate
TALL 320
TALLOW 320
TALLOW (Acidless) 320
Tallow Seed see Oil Tallow
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Teal see Oil Sesame
TEASEED 321
Thyme see Oils Essential
Til see Oil Sesame
Train see Oil Whale
Tung see Oil China Wood
TURKEY RED 321
TURPENTINE 321
Vitriol see Acid Sulfuric
WALNUT 321
Well Muds see Drilling Compounds Muds (Oil-Well)
WHALE 321
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Wintergreen see Methyl Salicylate
Wormseed see Oils Essential
Ylang Ylang see Oils Essential
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Oil Green see Chromium Oxide
OIL TREATING COMPOUNDS 550
OILS, ADDITIVE 550
BINDER-TWINE 550
BLOWN 550
CORE 550
COTTON SPRAYING 550
Creosote see Creosote, Coal Tar
CUTTING (semi-Soluble) 550
CUTTING (Soluble) 550
CUTTING BASES 550
CUTTING, SULFURIZED 550
DIP 550
DOORCHECK 550
DRIP 550

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ESSENTIAL 823
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FISH (Hydrogenated) 825
FISH (Kettle-Bodied) 825
FISH BLOWN 825
FISH LIVER 825
FLOTATION 551
FROTHING 551
FUR DRESSING 551
GARNETTING 551
GEAR CUTTING 551
GRAPHITED 551
HOBBING 551
HYDRAULIC 551
HYDROGENATED 826
INK 551
INSULATING 551
NEUTRAL 826
NEUTRAL COAL-TAR 826
PENETRATING 551
PERFUME 551
PLASTICIZING 552
PUTTY 552
QUENCHING 552
RAYON CONING 552
REAMING 552
REFRIGERATOR 552
ROAD 552
RUBBER RECLAIMING 552
SHINGLE-STAIN 552
SIZE 552
SLUSHING see also Slushing Compounds 552
SOAKING HOSIERY YARN 552
SOAKING RAYON CREPE 553
SOLUBLE METAL-WORKING 553
SULFONATED 826
TANNING 827
TEMPERING 553
TERPENELESS 827
TEXTILE 553
TEXTILE COTTON 553
TEXTILE RAYON 553
TEXTILE SILK 553
TEXTILE WOOL 553
THREADING 553
THROWING 553
VEGETABLE (see also individual names such as oil, castor; oil, cocoanut; oil, corn; etc.) 827
VEGETABLE VULCANIZED 554
White see Oil, Mineral
WOOL SCOURING 554

Oildag: Acheson Colloids Corp., Port Huron, Mich., colloidal graphite.
Oil-Dri: Sunnyside Oil Co., Chicago, Ill., absorbent.
Oilinc: John Sunshine Chem. Co., Inc., Chicago, Ill., pipe joint compd.
Oilkleen: Kem Labs., Bronx, N. Y., tex. stain remover.
Oilpreair: Pennsylvania Pump & Compressor Co., Easton, Pa., compressors.
Oiltex: Russell Mfg. Co., Middletown, Conn., belting.
Oiltex: W. D. MacDermot Chemical Co., Bristol, Conn., rust preventatives.
Oil-Treet: Saginaw Salt Prods. Co., Saginaw, Mich., fuel oil conditioner.
Oitioil: Brasil Oiticica, N. Y. C., oiticica oil.
Oily Waste Cans: Geo. W. Diener Mfg. Co., Chicago, Ill., safety appliance.
Oleo: Oliver Chem. Co., Cincinnati, O., detergents.
Oleo-Wash: Oliver Chem. Co., Cincinnati, O., dishwashing comp.
Old English: Du Pont Co., Finishes Div., Wilmington, Del., paint oil.
Old Reliable: George Callahan & Co., Inc., Closter, N. J., cement-pipe joint.
Old Rose Soap: Dixie Disinfecting Co., Dallas, Texas, hand soap.
Old Style: Koppers Co., Ptsbgh., roofing pitch.
Olefiant Gas see Ethylene
Oleins see Oil Turkey Red

OLEUM see also Acid Sulfuric 827

Oleum Bubulum see Oil Neatsfoot
Oleum Gossypii Seminis see Oil Cottonseed
Oleum Lini see Oil Linseed
Oleum Morrhuae see Oil Cod Liver
Oleum Olivae see Oil Olive
Oleum Palmae see Oil Palm
Oleum Rutae see Oils Essential
Oleum Sinapis Volatile see Oil Mustard Artificial
Oleum White see Lithopone
Olibanum see Gum Thus
Olivarome: Florasynth Labs., Inc., Bronx, N. Y., flavor.
Olivarome Fritzbro: Fritzsche Bros., N.Y.C., olive oil flavor.

OLIVE OIL FOOTS see also Olive Oil 827

Olivena: U. S. Sanitary Specialties Corp., Chicago, Ill., liquid hand soap.
Olivine: Woburn Chem. Corp., Kearny, N. J., soaps.
"Olivite": Oliver United Filter Ins., N.Y.C., acid pump.
Olocide: Oliver Chem. Co., Cincinnati, O., disinfectants & insecticides.
Omega: Sandox Chem. Wks., Inc., N. Y. C., chrome dyestuffs.
Omicron: Master Builders Co. Cleveland, O., mortar waterproofing agt.
Omnicide: Williams Chemical Corp. of Miami, Miami, Fla., moth proofer.
Ondal: Du Pont Co., Fine Chems. Div., Wilmington, Del., text. assistant.
One-Bath Tannage see Tannages One-Bath
Oneida: C. J. Osborn Co., N. Y. C., dry colors.
One-Man Trucks: Sabin Machine Co., Cleveland, O., hand lift trucks.
Onyx Black: Capitol Printing Ink Co., Inc., Washington, D.C., prtg. & litho inks.
Onyx Black: V.E.P. Co., Detroit, Mich., syn. enamel.
Onyxide: Onyx Oil & Chem. Co., Jersey City, N.J., algaecide.
Onyxol: Onyx Oil & Chem. Co., Jersey City, N.J., detergent.
Onyxsans: Onyx Oil & Chem. Co., Jersey City, N. J., softening agents.

OPACIFIERS ENAMEL 554
GLASS 554

Opake Enamel: Zapon Div., Atlas Powder Co., Stamford, Conn., finishes and synthetic enamels.
Opalac: Binney & Smith Co., N.Y.C., metal marking ink.
Opalbrite: Opalco Lab., McKeesport, Pa., bottle cleaning.
Opalite: Opalco Lab., McKeesport, Pa., metal cleaner.
Opalwax: Du Pont Co., Ammonia Dept., Wilmington, synth. wax.
Opax: Titanium Alloy Mfg. Div., Nat'l Lead Co., N.Y.C., opacifier.
Opex: Sherwin-Williams Co., Chicago, Ill., enamels.
Opi: Bingham & Co., Inc., N. Y. C., peatmoss.
Opoponax L. G.: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Oppeller: De Laval Steam Turbine Co., Trenton, N. J., impeller pump.
Opticlear: Owens-Illinois Glass Co., Toledo, O., kimble opticlear vials.
Optime Brand: S. B. Penick & Co., N.Y.C., drug extracts.
Oradex: Jacques Wolf & Co., Passaic, N.J., warp size.
Orammonium Sulfate see Hydroxylamine Sulfate
Orange 111 see Methyl Orange
Orange Cadmium see Cadmium Sulfide
Oratol: Jacques Wolf & Co., Passaic, N.J., sulphonated amide.
Orchil see Cudbear

ORCINOL 827

Ordinary: L. Martin Co., Inc., N. Y. C., black.
Org-Amo: Weaver Tankage Corp., Norfolk, Va., fertilizer material.

ORGANO MERCURY COMPOUNDS 827

Organosol: Warwick Chem. Co., Warwick, R. I., dispersion coatings.
Orient Yellow see Cadmium Sulfide
Orisia: Fritzsche Bros. Inc., N. Y. C., syn. perfume base.
Orleana see Annatto
Oropon: Rohm & Haas Co., Phila., Pa., leather bating enzyme.
Orotan TV: Rohm & Haas Co., Phila, Pa., syn. tanning mat.
Or-O-Tyme: Magnus, Mabee & Reynard, Inc., N. Y. C., thyme oil replacement.
Orpiment see Arsenic Sulfide Yellow
Orr's White see Lithopone

ORSAT APPARATUS 677

Orseille see Orchil Extract and Cudbear
Ortasol: Miller Chem. & Fert. Corp., Baltimore, Md., ortho-dinitrocresol.

Ortho compounds indexed under first word following ortho, e.g., ortho-Cresol listed as o-Cresol is indexed under "C".

Aminoazotoluene see Amino-Azotoluene
Diaminoditolyl see Tolidine
Dihydroxybenzene see Pyrocatechol
Diphenylene-Ethylene see Phenanthrene
Hydroxybenzyl Alcohol see Saligenin
Hydroxy-Cinnamic Lactone see Coumarin
Methoxy-Phenol see Guaiacol
Methylaminophenol see Orthoanisidine
Nitroaminobenzene see Orthonitraniline
Nitrochlorobenzol see Orthonitrochlorobenzene
Nitrotoluene see Nitrotoluene

Orthochrom: Rohm & Haas Co., Phila., Pa., leather finisher.
Orthoclear: Rohm & Haas Co., Phila., Pa., leather finisher.
Ortholate: Diamond Alkali Co., Cleveland, Ohio, laundry detergent.
Ortholeum: E I du Pont de Nemours & Co., Organ. Chem. Dept., Wilmington, lubricant additives.
Orthol-K: (Ortho) California Spray-Chemical Corp., Richmond, Calif., oil emulsion.
Orthophen: Sharples Chems. Inc., Phila., Pa., anti-skimming agt.
Orthoxenol see Orthophenyl-phenol

OSAGE ORANGE EXTRACT 828

Osage Pearl Cement: Linick Chem. Co., Chicago, Ill.
Osco: Protexol Corp., Kenilworth, N.J., wood preservatives.
O-Shellac: Advance Paint Co., Ind'plis, sealer.
Osmic Tetroxide see Acid, Osmic
Osmicide: Ph. Chaleyer, Inc., N. Y. C., deodorant base.

OSMIUM 828

Ospeco: Oil States Petroleum Co., Inc., N. Y. C., soap concentrate.
Ossein see Collagen
Ovalbumin see Albumen, Egg
Ovalclene: E I du Pont de Nemours & Co., Electrochem. Dept., Wilmington, Del., dry cleaning fluid.
Ovalite: Du Pont Co., Finishes Div., Wilmington, Del., enamel.

OVENS, DRYING 677
ELECTRIC 677
LABORATORY 677
TEMPERING AND TREATING 677
VACUUM 679

Overglaze Colors see Colors Overglaze also Colors Ceramic
Ovoflavin see Riboflavin
Owjk: Ollwell Chem. & Materials Co., Los Angeles, Calif.
Oxalate-A: Standard Chemical Works Co., Columbus, O., laundry sour.

OXALIC ACID see Acid Oxalic

Oxalic Ether see Ethyl Oxalate

OXAMIDE 828

Oxamine: General Dyestuff Corp., N.Y.C., direct dye.
Oxammonium Hydrochloride see Hydroxylamine Hydrochloride
Sulfate see Hydroxylamine Sulfate
Oxaniline see Orthoaminophenol Hydrochloride
Hydrochloride see Orthoaminophenol Hydrochloride
Oxenes: P. R. Dreyer Inc., N.Y.C., odors for insecticides.

OX GALL 828

Oxide Red Spanish see Iron Oxide

OXIDES ENAMELERS' 554

Oxidex: Fritzsche Bros. Inc., N. Y. C., preservative oils.
Oxidized Castor Oil see Castor Oil Blown
Oxid-on: Heil Process Equipment Corp., Cleveland, O., paint.
Oxo-Bordeaux: Sterling Chems. Inc., N. Y. C., fungicide.
Oxone see Sodium Peroxide
Oxweld: Linde Air Prods. Co., N.Y.C., equipt. for oxy-acetylene welding.
Oxyare: Arcos Corp., Philadelphia, Pa., are oxygen cutting process.
o-Oxybenzaldehyde see Salicylaldehyde
Oxybutanol see Aldol
Oxybutyricaldehyde see Aldol
"Oxychel": Robinson Wagner Co., Inc., N.Y.C., absorption base.
Oxycuttend: Arcos Corporation, Phila., Pa., electrodes.
Oxydiamine: General Dyestuff Corp., N.Y.C., direct dye.
Oxydon: B. P. Ducas Co., Inc., Jersey City, N. J., detergent.

OXYGEN 339

Oxygenium see Oxygen
Oxylite: Sterwin Chems. Inc., N. Y. C., flour bleaching agt.
Oxymethylene see Formaldehyde
Oxyquinoline see 8-Hydroxyquinoline

OXYQUINOLINE BENZOATE 329
CITRATE 329
SULFATE 329
Oxyphenic Acid see Pyrocatechol
Oxysalicylate, see Bismuth Subsalicylate
Oylapine: Sherwin-Williams Co., Cleveland, pine oil disinf.
Oslo: Sherwin-Williams Co., Chicago, Ill., leaded zinc oxide.
Oxogen see Hydrogen Peroxide
Ozokerite see Wax Ozokerite
Ozonite: Procter & Gamble, Cinc'ti., soap.
Ozotex: L. A. Salomon & Bro., N.Y.C., micro-crystalline wax.
Ozoturp: B. P. Ducas Co., Inc., Jersey City, N.J., text. soap.

P

P-: The Baker Castor Oil Co., N.Y.C., plasticizers.
P-5: Watson-Standard Co., Pittsburgh, Pa., chem. resistant coatings.
P-33: Thermatomic Carbon Co., N. Y. C., carbon black.
P-33: R. T. Vanderbilt Co., N.Y.C., carbon black.
PA-100: Davison Chemical Corp., Baltimore, Md., silica gel.
P.A.C.: E I du Pont de Nemours & Co., Electrochem. Dept., Wilmington, Del., formaldehyde.
P.C.: E. F. Houghton & Co., Phila., rope oil.
P.C.A., Potash Co. of Amer., Carlsbad, N. M., fertilizer.
P & H: Harnischfeger Corp., Milwaukee, Wis., cranes.
PHD: Warner Co., Phila., Pa., magnesium.
P.H.O.: The Neville Co., Pittsburgh, Pa., plasticizer and solvent.
P-K: Patterson-Kelley Co., Inc., Stroudsburg, Pa., dry blender.
PL-24: Amer. Air Filter Co., Louisville, Ky., air filter.
P. & G.: Procter & Gamble Co., Cinc'ti, soaps, indus. text., etc.
P&D 2-coat System: L. Sonneborn Sons, Inc., N.Y.C., exterior paint for wood & masonry surfaces.
P.V.R.: Warren Refining & Chem. Co., Cleveland, O., fuel additive.
PY-68: Monarch Chem. Works Inc., Omaha, Nebr., insecticide.
"Pabco": Paroffine Companies Inc., San Francisco, Calif., wax.
Pacamino: Publicker Industries Inc., Philadelphia, Pa., protein hydrolysate.
Pacific: Stephens-Adamson Mfg. Co., Aurora, Ill., belt conveyor carrier.
Pacific Crystals: Pittsburgh Plate Glass Co., Pittsburgh, Pa., sodium sesquicarbonate.
Pad-Tite: Midland Glue Prods. Co., Inc., Detroit, Mich., padding cement.
PACKAGING EQUIPMENT 679
EQUIPMENT MACHINES 679
PRIVATE LABEL 554
PACKERS, BAGS 679
BARREL 679
PACKING ASBESTOS 679
CHEMICAL RESISTANT 679
HYDRAULIC 679
METALLIC 679
PLASTIC 679
PUMP 679
RUBBER 679
TOWER 679
TOWER (Acid-Proof) 679
VALVE 679
Packomatic: J. L. Ferguson Co., Joliet, Ill., case sealer.
Paco: Wolverine Solvents & Chems. Co., Grand Rapids, Mich., solvent.
Paco Solvent—TR590: Publicker, Inc., Phila., proprietary solvents.
Pacol: Sherwood Refg. Co., Inc., Englewood, N. J., meat packer's oils.
Pactivex: Publicker Industries Inc., Philadelphia, Pa., syn. detergent.
Padasol & Solvacet: Jacques Wolf & Co., Passaic, N.J., penetrator.
Padcott: Johnson & Johnson, Chicago, Ill., cotton padding.
Pads-it: Commercial Paste Co., Columbus, O., paste powder.
PAILS, FIBRE SHIPPING 679
HARD RUBBER 679
METAL 679
Paint-a-Lite: Ruehl Paint Co., Cincinnati, O., resin emulsion paint.
PAINT BASES 554
BASES MILDEW PROOF 554
BASES RESIN EMULSION 554
PAINTS ACID-ALKALI RESISTANT 554
ALUMINUM 555
ANTI-FOULING 555
ASPHALT 555
BATTERY 555
BITUMINOUS 555
BOILER 555
CASEIN 555
CEMENT 555
CHLORINATED RUBBER 555
COLD WATER 555
DAMP-RESISTING 555
DIPPING 556
FIRE RETARDANT 556
GAS MAIN 556
GRAPHITE 556
HEAT-RESISTANT 556
INSULATING 556
LUMINOUS 556
METALLIC 556
MILDEW PROOF 556
MILL WHITE 556
Mirror-Backing see Silver Mirrors (Backing)
OIL-PROOF 556
RESIN EMULSION 556
ROOFING 556
FOR RUSTED METAL SURFACES 556
SMOKESTACK 556
STREET MARKING 557
STRUCTURAL 557
WATERPROOFING 557
Paloc: Davison Chem. Corp., Baltimore, Md., refrigerant desiccant.
Paintmarx: Amer. Crayon Co., Sandusky, Ohio, cold metal markers.
Paintodors: Sindar Corp., N. Y. C., odors for paint.
Paisley: Morningstar, Nicol, Inc., N.Y.C., dextrines.
Paisol: Paisley Prods., Inc., Chicago, Ill., gum, additive.
Paistex: Paisley Prods., Inc., Chicago, Ill., latex cements.
Paistic: Paisley Prods., Chicago, Ill., paste powder.
Paistick: Paisley Prods., Inc., Chicago, Ill., white office paste.
Pal: Chemical Specialties, Chicago, Ill., fabric flameproofing compound.
Pal: Linick Chem. Co., Chicago, Ill., flame proofing.
Paladin: Interchemical Corp., Newark, N. J., primer.
Palatine: Gen'l Dyestuff Corp., N.Y.C., acid dye.
Palatone: Dow Chemical Co., Midland, Mich., aromatic chem.
Paleo: Greene Tweed & Co., North Wales, Pa., packings.
Pale Catechu see Gambier Extract and Gum Gambier
Pale Oxide of Iron see Iron Oxide Red
Palestic: J. F. T. Berliner, Chicago, Ill., cold pour plastic.
Palex: Milwhite Co., Houston, Texas, bleaching clay.
Palisartine: Poughkeepsie Dyestuff Corp., Poughkeepsie, N.Y., alizarine dye.
PALLADIUM (the metal) 329
Bichloride see Palladium Chloride
CHLORIDE 329
Palladous Chloride see Palladium Chloride
Palm Butter see Oil Palm
Grease see Oil Palm
Palmco: Chicago Sanitary Prod. Co., Chicago, Ill., soap products.
Palmeto Wax: Internat'l Wax Refg. Corp., B'klyn, N.Y., carnuba wax substitute.
Palmetto: Greene Tweed & Co., North Wales, Pa., packings.
PALMITOYL CHLORIDE 329
Palm Nut Oil see Oil Palm Kernel
p-Aminobenzenesulfonamide see Sulfanilamide
Pamphlex: Swift & Co., Chgo., glue.
Panaflex: Pan Amer. Chems. Div., N. Y. C., plasticizers.
Panalene: Pan Amer. Chems. Div., N. Y. C., chem. intermediates.
Panama Bark see Soap Bark
Panapol: Pan Amer. Chems. Div., N. Y. C., drying oils.
Panares: Pan Amer. Chems. Div., N. Y. C., resins.
Panasol: Pan Amer. Chems. Div., N. Y. C., solvents.
Panatint Blue: Carman & Co. Inc., N. Y. C., laundry bluing.
Pandishines: Pennsylvania Dyestuff Co., Inc., Philadelphia, Pa., dishwashing compounds.
PANS, ACIDULATING 679
CRYSTALLIZING 679
MIXING 679
STEAM-JACKETED 679
VACUUM 679
Panthenol: Hoffmann-La Roche, Inc., Nutley, N.J., source of pantothenic acid.
Panther Creek: Amer. Colloid Co., Chicago, Ill., bentonite.
Pantopaque: Eastman Kodak Co., Rochester, N. Y., radiography medium.
Papayathin see Papain
PAPER, INSULATING 679
Papermaker's Alum see Aluminum Sulfate
Paper Specialties see Bleached Paper and Pulp; Clay Paper-Makers'; Gums Paper Box Makers'; Colors Paper-Makers; Dispersing Agents Paper; Dyes Paper; Cleaners Paper Felt; Lacquers Paper; Leveling Agents Paper; Pigments Paper; Sizes Paper; Starches Paper; Anti-Frothing Agents Paper.
Par: National Soap & Chem. Co., Minneapolis, Minn., soap flakes.
Par: R. T. Vanderbilt Co., N.Y.C., rub. makers' clay.
Para-compounds now indexed under first word following Para, e.g., Para Cresol now listed as p-Cresol is indexed under "C".
Para: General Dyestuff Corp., N.Y.C., direct dye.
Aminoazobenzene see Diaminoazobenzene
Amino Benzoic Acid see Acid Para Amino Benzoic
Aminodiphenylimide see Aminoazobenzene
Aminophenol see Para-Amidephenol
Aminophenylarsenic Acid see Acid Arsanilic
Azoaniline see Diaminoazobenzene
Chlorophenyl Phenyl Ketone see 4-Chlorobenzophenone
Cresylol see Acid Cresylic
Cymol see Cymene
Diaminodiphenyl see Benzidine
Diaminodiphenyl Sulfate see Benzidine Sulfate
Dichlorobenzol see Paradichlorobenzene
Dihydroxyphenol see Hydroquinone
Dioxybenzene see Quinone and Hydroquinone
Hydroxybenzene see Hydroquinone
Hydroxy-methylaniline Sulfate see Chemicals Photographic
Hydroxyphenol see Hydroquinone
Isopropyl-Aniline see Cumidine
Paracide: Hooker Electrochemical Co., Niagara Falls, N.Y., paradichlorobenzene.
"Paracoll": Davis Engineering Corp., Elizabeth, N. J.
Paracol: Hercules Powder Co., Wilmington, Del., wax size.
Parcolac: Parker Rust Proof Co., Detroit, Mich., corrosion resistant oils.
Parcolene: Parker Rust Proof Co., Detroit, Mich., chemicals.
Paracresylol see Acid Cresylic
Paracril: Enjay Co., Inc., N. Y. C., buna N-type rubber.
Paracymol see Cymene
Paradene: The Neville Co., Pittsburgh, Pa., syn. resin.
Paradi: Hooker Electrochemical Co., Niagara Falls, N.Y., paradichlorobenzene.
Paradise: The Standard Chemical Co., Inc., Milwaukee, Wisc., embalming cosmetics.
Paradors: Sindar Corp., N. Y. C., odors for rubber.
Paradow: Dow Chemical Co., Midland, Mich., p-dichlorobenzene.
Paradurol: General Dyestuff Corp., N.Y.C., decomposition preventive agent.
Paraeril: Enjay Co., Inc., N.Y.C., buna N-type rubber.
PARAFFIN CHLORINATED 329
Paraffin Wax see Wax, Paraffin
Paraflux: C. P. Hall Co., Akron, O., rub. flux.
Paraforms see Paraformaldehyde
PARAFORMALDEHYDE 329
Paragene: Enton Chemical & Dyestuff Co., Detroit, laundry bleach.
Paragon: J. M. Huber Corp., N.Y.C., clay.
Paragon: Lunkenheimer Co., Cincinnati, O., lubricator.
Paragon: Magnus, Mabee & Reynard, N. Y. C., olive oil.
Paragon: Matheson Co., Inc., East Rutherford, N.J., organic chemicals.
Para Methyl Benzaldehyde see Tolyl Aldehyde
Methylpropylbenzene see Cymene
Naphthalene see Anthracene
Nitrobenzene-Azo-Betanaphthol see Paranitraniline Red
Nitrotoluene see Nitrotoluene
Phthalein see Phenolphthalein
Propylmetacresol see Thymol
Red see Paranitraniline Red
Thymol see Thymol
Paralan: Amer: Lanolin Corp., Lawrence, Mass., rust preventive oil.
Paralate: Diamond Alkali Co., Cleveland, Ohio, laundry detergent.
PARALDEHYDE 329

Paraline: Allis-Chalmers, Milwaukee, Wisc., motor bases.
Parasodium: Mallinckrodt Chem. Wks., St. Louis, Mo., purified nitrocellulose.
Para Lube: C. P. Hall Co., Akron, O., softener & activator.
Paramark: Amer. Crayon Co., Sandusky, Ohio, rubber marker.
Paramins: Enjay Co. Inc., N. Y. C., lubricating oil.
•**Paramul:** Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., water repellent.
Paranaphthalene see **Anthracene**
Parapastels: Fritzsche Bros. Inc., N. Y. C., perfume and color combinations.
Paraphthalein see **Phenolphthalein**
Paraplex: Rohm & Haas Co., Phila., Pa., alkyd plasticizers.
Paraply: U. S. Stoneware Co., N. Y. C., rubber linings.
Parapont: Du Pont Co., Dyestuffs Div., Wilmington, Del., paradichlorobenzene.
Para Resin: C. P. Hall Co., Akron, O., petroleum base resins.
Parasepts: Heyden Chem. Corp., N.Y.C., preservatives.
Parasol: Spraying Systems Co., Bellwood, Ill., spray nozzles.
Parasolv: Crosby Chems. Inc., De Ridder, La., terpene solvent.
PARATHION 330
Parce Lubrite: Parker Rust-Proof Co., Detroit, Mich., coatings.
Parex: Donald Sales & Mfg. Co., Milwaukee, Wis., abrasive grain.
Par Excellence: Landen Putty Works, Malden, Mass., putty.
Pares: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., resins.
Paricin: Baker Castor Oil Co., N.Y.C., fatty acid esters.
PARIS GREEN see also **Copper Acetoarsenite** 557
White see **Calcium Carbonate** and **Whiting**
Paris Yellow see **Lead Chromate** and **Lead Antimoniate**
Park-Kase: Park Chemical Co., Detroit, Mich., liquid carburizer.
Parkerizing: Parker Rust-Proof Co., Detroit, coatings.
Parko: Park Chemical Co., Detroit, Mich., automotive chemicals.
Park-Tite: Amer. Dist. Steam Co., N. Tonawanda, N. Y., compound.
Parlay: Ellis Paint Co., Long Beach, Calif., enamels.
Parliq: Petroleum Specialties, Inc., N. Y. C., medicinal oils.
Parlon: Hercules Powder Co., Wilmington, Del., chlorinated rubber.
Parmantheme: Firmenich & Co., N. Y. C., violet specialty.
Parmite: Composition Materials Co., Inc., N. Y. C., ground nut shells.
Parmo: Esso Standard Oil Co., N. Y. C., petrolatums.
Parnol: Jacques Wolf & Co., Passaic, N. J., syn. detergent.
Paroil E.P.: Ameeco Co., N.Y.C., lubricating oil additive.
Parolite: Royce Chem. Co., Carlton Hill, N. J., sol. zinc sulphoxylate formaldehyde.
Paromes: Givaudan-Delawanna, Inc., N. Y. C., odors for para-blocks.
Parrot Brand: Chas. W. Young & Co., Phila., Pa., textile soaps.
Parrot Green see **Copper Acetoarsenite**
Parstains: Hartman-Leddon Co., Phila., Pa., biological stains.
Parting Compounds see **Foundry Parting Compounds**
Parzate: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., fungicide.
Pastall: Harshaw Chem. Co., Cleveland, O., drier.
Paste Colors see **Colors Paste**
Solders see **Solders Paste**
PASTES, BILLPOSTER 557
BRONZE 557
CELLULOSE SHEETING 557
GRAPHITE 557
LABEL 557
LIBRARY 557
POWDERED 557
TEXTILE FINISHING 557
TIN LABELING 557
WALL PAPER 557
Patch-It: Alabastine Paint Products, Chicago, Ill., plaster.
Patent Alum see **Aluminum Sulfate**
Leather Lacquers see **Lacquers Patent Leather**
Red see **Mercury Sulfide Red**
Patgreen see **Copper Acetoarsenite**
Patterson: M. O. Grove & Co., San Fran., Calif., mills.
Pawnee: Wyandotte Chems. Corp., Wyandotte, Mich., laundry detergent.
Paxwax: National Wax Co., Chicago, Ill., flexible waxes.
Paydet: Wyandotte Chems. Corp., Wyandotte, Mich., scouring paste detergent.
Payloader: Frank G. Hough Co., Libertyville, Ill., bulk handling equipt.
Paymaster: Western Cottonoil Co., Abilene, Tex., cottonseed meal & cake.
P. D. Softener: E. F. Drew & Co., Inc., N. Y. C., tallow matter.
Pearl: Chas. W. Young & Co., Phila., Pa., soaps.
Pearl Alum see **Aluminum Sulfate**
Ash see **Potassium Carbonate**
Pearl Borax: Chas. W. Young & Co., Phila., Pa., soaps.
PEARL ESSENCE 330
Moss see **Moss Irish**
Pastes see **Pastes Pearl**
White see **Bismuth Oxychloride**
Pebi-Tone: Maas & Waldstein Co., Newark, N.J., finishes.
PECTIN 330
Pectinol: Rohm & Haas Co., Phila., Pa., pectic enzymes.
Pedrifugal: Allis-Chalmers, Milwaukee, Wisc., pumps.
Peelcote: Watson-Standard Co., Pittsburgh, Pa., strippable coating.
Peerless: Charles B. Chrystal Co. Inc., N. Y. C., pumice stone.
Peerless: Ironton Fire Brick Co., Ironton, O., fire brick.
Peerless: Mississippi Lime Co., Alton, Ill., lime.
Peerless: R. T. Vanderbilt Co. Inc., N. Y. C., clay.
Peerless Flake: Draper Soap Co., Pawtucket, R. I., textile soap.
Peetal: Esso Standard Oil Co., N. Y. C., black greases.
Pee-Vee: Riverside Mfg. Co., St. Louis, Mo., lacquer remover.
Peg: Glyco Products Co., Inc., B'klyn., N. Y., polyexyethylene ester.
Pegu Catechu see **Cutch**
Pekrul: Morse Brothers Machinery Co., Denver, Colo., sluice gates.
Pelargol: Fritzsche Bros. Inc., N. Y. C., floral base.
Penacolite: Koppers Co., Inc., Pittsburgh, Pa., adhesives.
Penaseal: Chapman Chemical Co., Memphis, Tenn., sealer.
Pen-Chrome: Infilco, Inc., Chicago, Ill., wood finishes.
Pence: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., insecticides.
Penequik: L. Sonneborn Sons Inc., N.Y.C., synthetic penetrating agent.
Penethrum: Kay-Fries Chems., Inc., N. Y. C., insecticide carrier.
Penetralene: F. Sonneborn Sons, Inc., N.Y.C., textile detergent.
38 Penetrant-M: Kearny Mfg. Co., Kearny, N. J.
PENETRANTS CARBONIZING 557
LEATHER 557
Oils see **Oils Penetrating**
TEXTILE 557
Penetratoil: W. A. Wood Co., Boston, Mass., penetrating oil.
Penetrex: Arnold, Hoffman & Co. Inc., Providence, R. I., penetrants.
Penetro: Kuhne Libby Co., N.Y.C., penetrating fluid.
Penetrol: Kay-Fries Chems., Inc., N. Y. C., insecticide carrier.
Penetron: Engineering Labs., Inc., Tulsa, Okla.
Penetrone: H. Kohnstamm & Co., Inc., N. Y. C., laundry starch.
Penex: Penn Refining Co., Cleveland, O., penetrating oil.
Penford: Penick & Ford, Ltd., Inc., N. Y. C., corn starch.
PENICILLIN 330
Penicillinase: Takamine Lab. Inc., Clifton, N. J., penicillin-testing reagt.
Penick: H. R. Larst Co., San Fran., Calif., gums and oil.
Penite: Gilbreath Chemical Co., San Fran., Calif., wood preservative.
Penite: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., weed-killing.
Pen-Kay: Heatbath Corp., Springfield, Mass., liquid carburizing bath.
Penn Drake: Pennsylvania Refining Co., Cleveland, O., lubricant.
Pennant: The Davies Young Soap Co., Dayton, Ohio, dry cleaning soaps
Penoclean: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., milkstone remover.
Pennex: Esso Standard Oil Co., N. Y. C., dark colored cutting oils.
Pen-o-leo: Esso Standard Oil Co., N. Y. C., extreme pressure lubricants.
Penn-O-Pine: Dixie Disinfecting Co., Dallas, Texas, pine disinfectant.
Pennsalt: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., cleaners.
Pennvernon: Pittsburgh Plate Glass Co., Pittsburgh, Pa., picture glass.
Pennwood: W. A. Wood Co., Boston, Mass., motor oils.
Penocone: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., bleach.
Penphene: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., insecticide.
Penphos: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., insecticide.
Pensal: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., detergents.
Pensalco Descaler: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., descaling compound.
Penta: Chapman Chem. Co., Memphis, Tenn., preservative.
Penta: Sharples Chems. Inc., Phila., Pa., syn. amyl alcohol.
Pent-Acetate: Sharples Chems. Inc., Phila., amyl acetate.
Pentacite: Reichhold Chemicals Inc., Detroit, Mich., pentaerythritol resins.
Pentacizers: Heyden Chem. Corp., N. Y. C., plasticizers.
3-5-7-3-4-Penta Hydroxy Flavone-3-Rutinoside see **Rutin**
Pentadecyl Carbinol see **Alcohol Cetyl**
Pental: Nopco Chem. Co., Harrison, N.J., extender.
Pentalarm: Sharples Chems. Inc., Phila., Pa., warning agt. for fuel gas.
"Pentalyn": Hercules Powder Co., Wilmington, Del., syn. resin.
Pentamula: Heyden Chem. Corp., N. Y. C., emulsifiers.
Pentanethiol see **Amyl Mercaptan**
Pentaphen: Sharples Chems. Inc., Phila., antiskinning agt.
Pentasol: Sharples Chems. Inc., Phila., syn. mixed amyl alcohols.
PENTACHLORODIPHENYL OXIDE 330
PENTACHLORETHANE 330
PENTACHLOROPHENOL 330
PENTAERYTHRITOL 331
TETRA NITRATE 331
Pentalene: Sharples Chems. Inc., Phila., Pa., amyl phenol.
Pentamethylene Amine see **Piperidine**
PENTAMETHYLENE DIBROMIDE 331
TETRAZOLE 331
PENTANE 331
PENTANEDIONE 331
Pentanedione-2,4 see **Acetylacetone**
Pentanethiol see **Amyl Mercaptan**
Pentanol see **Alcohol Amyl Normal**
Pentanone see **Diethylketone** also **Methyl Propyl Ketone**
Pentaryl A: Sharples Chems. Inc., Phila., Pa., amylbiphenyl.
Pentawaxes: Heyden Chem. Corp., N. Y. C., syn. waxes.
Pentecat L: Advance Solvents & Chem. Corp., N. Y. C., alcoholysis catalyst.
Pentech: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., DDT insecticide.
Pentek: Heyden Chem. Corp., N.Y.C., pentaerythritol.
PENTENE—1 331
PENTENE-2 331
Pentergent: Nopco Chem. Co., Harrison, N.J., detergent.
Pentergent: Jacques Wolf & Co., Passaic, N.J., sulphonated aliophatic amide.
Pentex: Colloids Inc., Newark, N. J., penetrating agent.
Pentole: The Cincinnati Oil Works Co., Cincinnati, Ohio, paint thinner.
Pentralene: Scher Bros., Clifton, N. J., wetting and dispersing agent.
Pentrate: Amer. LaFrance Foamite Corp., Elmira, N. Y., wetting agent.
Pentrate: Heatbath Corp., Springfield, Mass., black oxide finish.
Pentrosulf: Maher Color & Chem. Co., Chicago, Ill., penetrating and levelling agts.
Pentyl Acetate see **Amyl Acetate**
Penylethanol see **Alcohol Phenyl Ethyl**
Peptizan: Fiber Chem. Corp., Cliffwood, N. J., deliming agents.
PEPTIZING AGENTS RUBBER 558
Pepton: Amer. Cyanamid Co., N. Y. C., plasticizer.
Perborax see **Sodium Perborate**
Perborin see **Sodium Perborate**
Perbunan: Enjay Co. Inc., N. Y. C., nitrile rubber.
PERCHLORATES 331
Perchlorethylene see **Tetrachlorethylene**
Perchlormethane see **Carbon Tetrachloride**
Perchloroethane see **Hexachlorethane**
Perchloron: Pennsylvania Salt Mfg. Co., Philadelphia, Pa., calcium hypochlorite.
Perchloropropylene see **Hexachloropropylene**
Per-Clean: Du Pont Co., Wilmington, Electrochem. Dept., perchlorethylene.
PERCOLATORS 679
Per-Dox: Du Pont Co., Electrochem. Dept., Niagara Falls, N.Y., pwdr.
Peregal O: Gen'l Dyestuff Corp., N.Y.C., dyeing asst.
Perennis: Warren Refg. & Chem. Co., Cleveland, Ohio, varnish.
Per-Ex: Detrex Corp., Detroit, Mich., solvent and dryer.
Perfecta: L. Sonneborn Sons Inc., N.Y.C. petrolatum U.S.P.
Perfection: Amer. Dist. Steam Co., N. Tonawanda., N. Y., reducing valves.
Perfection: Eaton-Dikeman Co., Mt. Holly Springs, Pa., coffee filter papers.
Perfection Flake: Draper Soap Co., Pawtucket, R. I., textile soap.
Perfon: The Diversey Corp., Chicago, Ill., polishing compound.
PERFUME BASES 558
Specialties see **Colors Perfume**; **Extenders Perfume**; **Fixatives Perfume.**

PERFUMES DISINFECTANTS 560
FLY-SPRAY 560
INSECTICIDE 560
PAINTS 561
RUBBER 561
SANITARY-BLOCK 561
SOAP 561
TEXTILE 561
Perhydrol Peroxide see Hydrogen Peroxide
Periclasite see Magnesium Oxide
Peridot see Alinine
PERIODATES 331
Perlite: H. Kohnstamm & Co. Inc., N. Y. C., laundry alkali.
Perma: Bklyn. Color Wks., Bklyn., dry color lakes.
Perma Gard: Thompson Hayward Chemical Co., Kansas City, Mo., wood preservative.
Permabond: Polymer Chemical Co., Cincinnati, O., industrial adhesives.
Perm-A-Clor: Detrex Corp., Detroit, Mich., degreasing solvent.
Permacote: Berry Asphalt Co., Magnolia, Ark., asphalts.
Permacote: S. C. Johnson & Son, Inc., Racine, Wis., paint.
Permacote: Polymer Chem. Co., Cincinnati, O., plastic coatings.
Permadine: American Chemical Paint Co., Ambler, Pa., rust proofing agt.
Permag: Magnuson Products Corp., B'klyn, N.Y., industrial detergents.
Perm-A-Kleen: Detrex Corp., Detroit, Mich., drycleaning solvent.
Permalux: Du Pont Co., Rubber Chems. Div., Wilmington, Del., antioxidant.
Permamix: Berry Asphalt Co., Magnolia, Ark., paving material.
Permamoid: Polymer Chemical Co., Cincinnati, O., latex molding compd.
Permanent: General Dyestuff Corp., N.Y.C., lake dye.
Permanent: Sherwin-Williams Co., Chicago, Ill., orange colors.
Permanent Green see Guignet's Green
White see Blanc Fixe
Permanent Non-Electric: Eriez Mfg. Co., Erie, Pa., magnetic separators.
Permanganate of Potash see Potassium Permanganate
Permanente: Kaiser Aluminum Chem Sales, Inc., Oakland, Calif., aluminas.
Permanite: Maurice A. Knight, Akron, O., resin equipment.
Permansa: Sherwin-Williams Co., Chicago, Ill., Hansa Yellow colors.
Permansa Orange: Sherwin-Williams Co., Chicago, Ill., dry colors.
Permansa: Sherwin-Williams Co., Cleveland, dry colors.
Perma-Plate: Dings Magnetic Separator Co., Milwaukee, Wis., magnetic plate.
Perma-Pulley: Dings Magnetic Separator Co., Milwaukee, Wis., magnetic pulley.
Permatex: Stahl Finish Co., Peabody, Mass., leather finishes.
Permatone: Ph. Chaleyer, Inc., N. Y. C., fixative base.
Permatox: Chapman Chem. Co., Memphis, Tenn., wood preservative.
Permaweld: Polymer Chem. Co., Cincinnati, O., adhesives.
Permax: Taylor Instrument Co., Rochester, N. Y., hydrometer.
Permel: Amer. Cyanamid Co., N. Y. C., text. water repellent.
Permolith: Sherwin-Williams Co., Chicago, Ill., lithopone.
Permotate: Spazier Soap & Chem. Co., Santa Monica, Calif., liquid detergent.
PeroKote Rust: Perolin Co., Inc., N.Y.C., rust preventive.
Perol: Perolin Co., Inc., N.Y.C., insecticide.
Perone: Du Pont Co., Electrochem. Dept., Wilmington, hydrogen peroxide.
Pero-Nilo Soot: Perolin Co., Inc., N.Y.C., soot remover.
Peroxydol see Sodium Perborate
Perrol: van Ameringen-Haebler, Inc., N.Y.C., floral perfume base.
Perrolex: van Ameringen-Haebler, Inc., N.Y.C., synth. perfume base.
Perry Clay: United Clay Mines Corp., Trenton, N.J., insectic. dust.
Persian Red see Iron Oxide Red
Persio see Cudbear also Orchil Extract
Persiste: (Ortho) California Spray-Chemical Corp., Richmond, Calif., DDT.
Per-Sol: Circo Products Co., Cleveland, Ohio, degreasing solvents.
Persulfate of Iron see Ferric Sulfate
Pertoxin: Whitmoyer Labs., Inc., Myerstown, Penna., fumigant.
Pesco: Perry Equipt. Corp., Philadelphia, Pa., steel equipment.
Pestene: Uncle Sam Chem. Co. Inc., N. Y. C., insect spray.
Pest-foil: An-fo Mfg. Co., Oakland, Calif., insecticide.
Pestmaster: Michigan Chemical Corp., St. Louis, Mich., insecticides.
Pes-Tox: Monarch Chem. Works Inc., Omaha, Nebr., insecticides.
Pestroy DDT: W. W. Lawrence & Co., Pittsburgh, Pa., insecticide.
Petrex: Hercules Powder Co., Wilmington, Del., syn. resin.
Petrobase: Penna Refining Co., Butler, Pa., soluble oil base.
Petroflux: L. Sonneborn Sons Inc., N.Y.C., homogenizing agent.
Petrogel: Atlas Powder Co., Wilmington, Del., explosive.
Petrogreen: Gibbs Paint Mfg. Co., Euclid, O., green barn paint.
Petrohol: Enjay Co. Inc., N. Y. C., isopropyl alcohol.
Petrol: Patent Chems., Inc., Paterson, N. J., petroleum dyestuff.
Petrolac: Advance Solvents & Chem. Corp., N.Y.C., synth. resin.
Petrolac: Continental Asbestos & Refg. Corp., N. Y. C., burner conditioner.
Petrolyte: L. Sonneborn Sons Inc., N.Y.C., fat splitting reagent.
PETROLATUM 331
Petrolatum (Liquid) see Oil, Mineral
Petrolene see Asphaltum
PETROLEUM Asphalt see Asphaltum
ETHER see also Benzine 332
Jelly see Petrolatum
Naphtha see Petroleum Ether and Benzine also Naphthas Hydrogenated
Ointment see Petrolatum
Petromeaks: P. R. Dreyer Inc., N.Y.C., odors for insecticides.
Petromix: L. Sonneborn Sons Inc., N.Y.C., soluble oil base.
Petronate: L. Sonneborn Sons, N.Y.C., petroleum sulphonate.
Petrored: Gibbs Paint Mfg. Co., Euclid, O., red barn paint.
Petro-Seal: Sherwin-Williams Co., Chicago, Ill., tank coating.
Petrosol: Petroleum Solvents Co. of Penn., Butler, Pa., petroleum naphthas.
Petrosul: Penna. Refining Co., Butler, Pa., petroleum sulfonates.
Petrowet: Du Pont Co., Fine Chems. Div., Wilmington, Del., sodium salt.
Peurine: Martin Dennis Co., Newark, N.J., synth. tanner's bate.
Petyco: Petroleum By Prods. Co., N.Y.C., emulsifiers.
Pharmco: Publicker Industries, Inc., Phila., Pa., alcohol.
Phebeco: Phoenix Oil Products Corp., Newark, N.J., tanning oils.
pH COLORIMETER 679
pH CONTROL APPARATUS 679
pH MEASURING AND RECORDING INSTRUMENTS 679
***Phenac:** Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., resins.
Phenacetin see Acetophenetidin
Phenacide: Thompson-Hayward Chem. Co., Kansas City, Mo., toxaphene insecticides.
Phenacyl Chloride see Chloracetophenone
Phenamine: General Dyestuff Corp., N.Y.C., direct dyestuff for dyeing cotton, rayon and veg. fibers.
PHENANTHRENE 332
1,10-o-PHENANTHROLINES 332
Phenanthrin see Phenanthrene
Phenatox: Amer. Cyanamid Co., N. Y. C., insecticide.
Phenazone, Salazolon see Antipyrine Salicylate
Phenecote: Watson-Standard Co., Pittsburgh, Pa., finishes.
Phene see Benzol
Phenethyl Alcohol see Alcohol Phenyl Ethyl
o-PHENETIDINE 332
p-PHENETIDINE 332
PHENETOLE 332
Phenex: C. P. Hall Co., Akron, O., rub. accel.
Phenmethylol see Alcohol Benzyl
Pheno: Amer. Cyanamid Co., N. Y. C., dyes.
PHENOBARBITAL 333
Phenocleen: Kemiko Mfg. Co., Irvington, N. J., disinfectant.
Phenoform: General Dyestuff Corp., N.Y.C., phenol formaldehyde resin dye.
PHENOL see also Acid, Carbolic Crystals 333
RED 334
Phenolaz see Phenolphthalein
Phenol-Furfural Plastics see Plastics Phenol-Furfural
Phenol-sulfonphthalein see Phenol Red
Phenolic Plastics see Plastics Phenolic
1, 2 Phenolmethylol see Saligenin
PHENOLPHTHALEIN 334
PHENOLTHIAZINE 334
Phenoltrinitrate see Acid Picric
Phenoquin: see Cinchophen
Phenoxin see Carbon Tetrachloride
Phenoxthine see Phenothioxin
Phenoxybenzene see Diphenyloxide
PHENYL ACETALDEHYDE 334
ACETALDEHYDE DIMETHYL ACETAL 334
ACETAMIDE 334
ACETATE 335
ACETONE 335
ACETYLENE 335
Acetonitrile see Benzyl Cyanide
ALANINE 335
Amine see Aniline
Aniline see Diphenylamine
Azoaniline see Aminoazobenzene
Bromide see Bromobenzene
Carbinol see Alcohol Benzyl
Chloride see Benzol Chloride
Chloroform see Benzotrichloride
Cyanide see Benzonitrile
2-PHENYLCYCLOHEXANOL 335
PHENYL DIETHANOLAMINE 335
Dioxide see Phenol
ETHANOLAMINE 335
Ether see Diphenyloxide
ETHYL ACETATE 335
Ethyl Acetate see Chemicals Aromatic
PHENYLETHYLAMINE 335
Phenyl Ethylbarbituric Acid see Phenobarbital
Ethyl Ether see Phenetole
Ethyl Ketone see Propiophenone
Ethyl Salicylate see Chemicals Aromatic
ETHYL FORMATE 335
ETHYL PROPIONATE 335
ETHYLENE GLYCOL 335
Fluoroform see Benzotrifluoride
Formic Acid see Acid Benzoic
GLYCINE POTASSIUM SALT 335
Hydrate see Phenol
HYDRAZINE 335
HYDRAZINE HYDROCHLORIDE 335
HYDRAZINE ISOCYANATE 335
HYDRAZINE LITHIUM 335
Hydride see Benzol
Hydroxide see Phenol
MERCURIC ACETATE 335
MERCURIC BENZOATE 336
MERCURIC o-BENZOIC SULFIMIDE 336
MERCURIC BORATE 336
MERCURIC CHLORIDE 336
MERCURIC GLUCONATE 336
MERCURIC HYDROXIDE 336
Mercuric Nitrate see Phenyl Mercury Nitrate
MERCURIC NAPHTHENATE 336
MERCURIC PICRATE 336
MERCURIC STEARATE 336
MERCURY NITRATE 336
MERCURY PHTHALATE 336
Methane see Toluol
Methylketone see Acetophenone
METHYL PYRAZOLONE 336
2-Phenyl-6-Methyl-Quinoline-4-Carboxylic Acid Ethyl Ester see Neocinchophen
PHENYL MORPHOLINE 336
4-NAPHTHYL AMINE 336
Phenyl Nitrite see Nitrobenzene
Phenylic Alcohol see Phenol
o-PHENYLPHENOL 336
p-PHENYLPHENOL 336
PHENYL SALICYLATE see also Salol 336
SEMI CARBAZIDE 336
URETHANE 336
Phenylchloroform see Benzotrichloride
1-Phenylethanol see Methyl Phenyl Carbinol
2-Phenylethanol see Alcohol Phenyl Ethyl
Phenyl-1,3-Methyl 5-Pyrazolone see Phenyl Methyl Pyrazolone
2-Phenyl-Phenol see Orthoxenol
2-Phenylquinoline-4 see Cinchophen
m-PHENYLENEDIAMINE 337
o-PHENYLENEDIAMINE 337
p-PHENYLENEDIAMINE 337

Phermocoil: Bethlehem Fdry. & Mach. Co., Bethlehem, Pa., heating systems.
Philaria: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Phillblack: Phillips Chemical Co., Bartlesville, Okla., furnace blacks.
Philcopco: D. C. Greiner, Phila., Pa.
Philcopo: Phila Coppersmithing Co., Philadelphia, Pa., welded products.
Philmar Solvent: Phillips & Martin Co., Chicago, Ill., alcohol solvent.
Philosopher's Wool see Zinc Oxide
Phi-O-Sol: Onyx Oil & Chem. Co., Jersey City, N. J., wetting agent.
Phloroglucine see Phloroglucinol
PHLOROGLUCINOL 337
Phoenix: Adelphi Paint & Color Wks., Ozone Pk., N. Y., paints, varnishes, enamels.
Phoenix: Textile Proofers Inc., Jersey City, N.J., flameproof.
Phomaide: Pyrene Mfg. Co., Newark, N.J., fire extng. charge.
Phomaire Playpipe: Pyrene Mfg. Co., Newark, N. J., fire extinguisher.
Phomene: Pyrene Mfg. Co., Newark, N.J., fire exting.
Phoresin: Victor Chem. Wks., Chicago, Ill., monomer.
Phoscote: Chemco Prod. Co. Inc., Chicago, Ill., phosphating metal.
Phosflake: Pittsburgh Plate Glass Co., Columbia Chem. Div., Pittsburgh, Pa., alkali.
PHOSGENE 337
Phos Kil: Niagara Chem. Div., Food Machinery & Chem. Corp., N.Y.C., parathion.
Phosphine: General Dyestuff Corp., N.Y.C., basic dyes.
Phosphodant: G. Frederick Smith Chem. Co., Columbus, O., zinc wire spiral reductor.
Phospho Molybdic Toners & Lakes: Collway Colors Inc., Paterson, N. J., dry colors.
Phospho Tungstic Toners & Lakes: Collway Colors Inc., Paterson, N. J., dry colors.
Phosphoids: Metallurgical Prods. Co., Phila., Pa., for gas free alloys.
Phosphoric Acid Paste see Acid Phosphoric Paste
Acid Anhydrous see Phosphorous Pentoxide
Chloride see Phosphorus Pentachloride
Sulfide see Phosphorus Pentasulfide
PHOSPHATE EDIBLE BONE 337
PHOSPHATE ROCK 337
PHOSPHORUS 337
Chloride see Phosphorus Trichloride
OXYCHLORIDE 338
PENTACHLORIDE 338
PENTASULFIDE 339
PENTOXIDE 339
Persulfide see Phosphorus Pentasulfide
Red see Phosphorus
Salt see Sodium Ammonium Phosphate
SESQUISULFIDE 339
TRIBROMIDE 339
TRICHLORIDE 339
Phosphoryl Chloride see Phosphorus Oxychloride
Phos-Trade: Ampco Metal Inc., Milwaukee, Wis., welding electrodes.
Photo-Flo: Eastman Kodak Co., Rochester, N. Y., wetting agent.
Photolith: Du Pont Co., Photo Prods. Dept., Wilmington, Del., lithographic film.
PHOTOMETERS 680
LIGHT TRANSMISSION 680
PHOTOMICROGRAPHIC EQUIPMENT 680
Phototint: M. Grumbacher Inc., N. Y. C., photo colors.
"PH-Plus": Mathieson Chem. Corp., N.Y.C., alkali briquettes.
Phthaiandione see Phthalic Anhydride
PHTHALIC ANHYDRIDE 339
Imide see Phthalimide
PHTHALIMIDE 340
Phygon: Naugatuck Chem. Div. U. S. Rubber Co., N. Y. C., fungicides.
PHYTHALYL CHLORIDE 340
PHYTOSTEROL 340
o-Phthyl Dichloride see Phthalyl Chloride
Picco: Penna. Industrial Chemical Co., Clairton, Penna.
Piccoclear: Penna. Industrial Chemical Co., Clairton, Penna., rubber softeners.
Piccolastic: Penna. Industrial Chemical Co., Clairton, Pa., thermoplastic resin.
Piccolyte: Penna. Industrial Chemical Co., Clairton, Pa., terdene resin.
Piccoumaron: Penna. Industrial Chemical Co., Clairton, Pa., coumaron indene resin.
Piccovar: Penna. Industrial Chemical Co., Clairton, Pa., idene resin.
Pickle Alum see Aluminum Sulfate
Pickelene: Haviland Prods., Co., Grand Rapids, Mich., inhibitor mineral acids.
Pick-ets: F. G. Findley Co., Milwaukee, Wisc., cement pellets.
PICKLING AGENTS 561
Pickling Inhibitors see Inhibitors Pickling
PICOLINE ALPHA 340
BETA 340
GAMMA 340
Pictol: Mallinckrodt Chem. Wks., St. Louis, Mo., photo developer.
Pictone: Mallinckrodt Chem. Works, St. Louis, Mo., photographic developer.
Piezo-Ray: Commercial Research Labs. Inc., Detroit, Mich., pressure study.
PIGMENTS, BLACK CARBON 340
BLACK MINERAL 341
BLUE 341
BROWN 341
CHROMIUM 341
EXTENDED TITANIUM 341
EXTENDER 341
FLATTING 342
FLUORESCENT 342
GREEN 342
LEAD 342
LUMINOUS 342
MICA 342
PAINT 342
PAPER 343
PHOSPHORESCENT 343
RED 343
RUBBER 343
TEXTILE 343
TITANATED LITHOPONE 344
TITANIUM 344
WHITE 344
YELLOW 344

PIGMENTS (cont'd)
ZINC 344
Pig-Wrack see Moss Irish
PILL MACHINERY 680
Pilot: Webb Belting Co., Kansas City, Mo., belt cement.
Pilotrol: Bailey Meter Co., Cleveland, O., air pilot valve.
Pimelinketone see Cyclohexanone
PINACOL 344
Pine-ax: Paxson Mfg. Co., Philadelphia, Pa., water wax base.
PINE CREOSOTE 344
Disinfectants see Disinfectants Pine Oil
Resin see Resin Gum
Pine Tree: J. C. Drouillard Co., Cleveland, O., creosote oil.
Pinealr: Uncle Sam Chem Co. Inc., N. Y. C., disinfectants.
Pine-glo: Allen Burns Co., Buffalo, N. Y., pine-scrub soap.
Pine Heart: Harry C. Smith Co., Memphis, Tenn., gum turpentine.
Pine-Kleen: W. D. Carpenter Co., Inc., Syracuse, N. Y., floor cleaner.
PINENE, ALPHA 344
BETA 344
Pinemul: Williams Chem. Corp. of Miami, Miami, Fla., pine disinfectant.
Pineoil: Uncle Sam Chem. Co. Inc., N. Y. C., disinfectant.
Pine-O-Lin: Parsons Chemical Wks., Grand Ledge, Mich., pine oil disinfectant.
Pinetar: Geo. B. Robbins Disinfectant Co., Inc., Cambridge, Mass., pine disinfectant.
Pinetex: Nelson Chemical Corp., Detroit, Mich., laundry detergent.
Pinetex: Scher Bros., Clifton, N. J., soluble pine oil.
Pinolith see Lithopone
Pioneer: Theodor Leonhard Wax Co., Inc., Paterson, N. J., beeswax.
Pioneer: Witco Chem. Co., N. Y. C., asphalt prods.
Pioneer Brand: Felton Chemical Co., B'klyn, N.Y., essential oils.
PIPE, ALUMINUM 680
BELL & SPIGOT 680
COPPER 680
FITTINGS, ALLOY STEEL 680
FITTINGS, FORGED STEEL 680
FLANGED 680
GLASS 680
HARD RUBBER 680
HEAT RESISTING 680
LEAD 680
PLASTIC 680
PORCELAIN 680
RUBBER LINED 680
STAINLESS STEEL 680
STEEL 680
STONEWARE 680
Pipe Clay see Clay China
Coatings see Coatings Pipe
Pipe-Line Enamels see **Enamels Pipe-Line**
Paints see Paints Gas Main
PIPERAZINE 344
PIPERIDINE 345
Piperonal see Heliotropin
Pipetite-Stik: Lake Chem Co., Chicago, Ill., pipe joint comp.
PIPING, CORROSION RESISTING 680
PRE-FABRICATED 681
Pirrvo: Pittsburgh Plate Glass Co., Red Wing, Minn., refined linseed oil.
Pistachia Galla see Gum Mastic
Piston-Ring: Amer. Dist. Steam Co., N. Tonawanda, N. Y., expansion joints.
Pitayine see Quinidine-Alkaloid
PITCH BATTERY 561
BREWERS' 561
BRIQUETTE 561
BRUSHMAKERS 561
BURGUNDY 345
CAULKING 561
COAL TAR 345
COKE 345
CONDUIT 561
CORE 561
COTTONSEED 345
GREASE MAKERS' 561
HARDWOOD 345
INSULATING 561
LINSEED 345
OPTICIANS 562
PALM 345
PINE 345
ROOFING 562
ROSIN 345
STEARINE 345, 562
TALL OIL 345
VEGETABLE 346
WATERPROOFING 562
WOOL 346
Pitchblende see Uranium Oxide
Pitch Prime: see Pitch Pine
Pittchlor: Pittsburgh Plate Glass Co., Pittsburgh, Pa., calcium hypochlorite.
Pitticide: Pittsburgh Plate Glass Co., Pittsburgh, Pa., calcium hypochlorite.
Piw: General Wax Refining Co., N.Y.C., flexible wax.
Pixol: Sherwood Refg. Co. Inc., Englewood, N.J., tar oils.
Pla Stick: Atlas Adhesives, Phila., Pa., acoustical tile cement.
Plana-Thion: Planetary Chemical Co., Creve Coeur, Mo., parathion.
Planetizer: Planetary Chem. Co., Creve Coeur, Mo., sol. fertilizers.
Planeto: Planetary Chem. Co., Creve Coeur, Mo., miscible chlordane concentrate.
Plan-o-chlor: Planetary Chem. Co., Creve Coeur, Mo., chlordane concentrates.
PLANT EQUIPMENT, GENERAL 681
PLANT HORMONES 562
Plantarome: Florasynth Labs., Inc., Bronx, N. Y., flavor.
PLANTS ABSORPTION, HYDROCHLORIC ACID 682
ACID RECOVERING AND CONCENTRATION 682
BENZOL RECOVERY 682
CAUSTIC SODA 682
CHLORINE 682
DESIGN AND CONSTRUCTION 683

PLANTS (cont'd)
FERTILIZER ... 682
GLYCERIN RECOVERY ... 682
HYDROCHLORIC ACID ... 682
NITRIC ACID ... 682
ORE CONCENTRATION ... 682
PILOT ... 682
POWER (Steam) ... 682
SOLVENT EXTRACTION ... 682
SULFURIC ACID ... 682
WATER CONDITIONING ... 682
Plasene: Penick & Ford, Ltd., Inc., N. Y. C., humectant.
Plast: Plastic Metals Div. Nat'l. Radiator Co., Johnstown, Pa., metal powder.
Plastacele: E I du Pont de Nemours & Co., Plastics Dept., Wilmington, Del., cellulose acetate.
Plastac M: Advance Solvents & Chem. Corp., N.Y., rubber plasticiser.
Plastaid: Binney & Smith Co., N.Y.C., rubber softener
Plaster of Paris see Calcium Sulfate
Plastex: Buffalo Weaving & Belting Co., Buffalo, N.Y., conveyor belt.
Plas-Tex: North America Chem. Associates, Cohoes, N. Y., additive.
Plastex: Steel Protection & Chem. Co., Inc., Mooresville, Ind., enamel.
Plastic metal: Stull & Co., Phila., Pa., filling & smoothing compd.
PLASTIC MOLDED PARTS ... 652
Plastic Quik-Pak: A. P. Green Fire Brick Co., Mexico, Mo., insulations.
Plasticap: Anchor Hocking Glass Corp., Lancaster, Ohio, molded caps.
PLASTICIZERS, CELLULOSE ... 346
GLUE ... 562
LACQUER ... 562
NITROCELLULOSE ... 347
RESIN ... 562
RUBBER ... 347, 564
STARCH ... 564
VINYL ... 348
Plasticolor: Frederic B. Stevens Inc., Detroit, Mich., buffing composition.
Plasticote: Livingston Co., Inc., New Haven, Conn., auto polish.
Plasticrude: National Wax Co., Chicago, Ill., wax replacement.
Plastilube: Warren Refining & Chem. Co., Cleveland, O., all-purpose grease.
Plastic-Gloss: North American Chem. Associates, Cohoes, N. Y., paint varnish.
Plastic-Pave: Continental Asbestos & Refining Corp., N.Y.C., colored flooring.
PLASTICS ... 564
ACRYLIC (see also Resins, Acrylic) ... 565
ALCOHOL RESISTANT ... 565
CASEIN ... 565
CELLULOSE ACETATE ... 565
CELLULOSE ACETATE BUTYRATE ... 565
Coating Lacquer see Cellulose Acetate Lacquer
ETHYL CELLULOSE ... 565
Impregnating see Impregnating Solutions also Resins Thermoplastic
LAMINATED ... 565
MELAMINE ... 565
PHENOLIC ... 565
PYROXYLIN ... 565
RUBBER ... 565
TRANSPARENT MOLDING ... 565
UREA ... 565
Vinyl see Resins Vinyl
VINYL FORMAL ... 566
Plasti-glaze: Plastic Products Co., Detroit, Mich., glazing compd.
Plastile: U. S. Stoneware Co., N. Y. C.
Plastiment: Sika Chemical Corp., Passaic, N.J., concrete densifier.
Plastocrete: Sika Chemical Corp., Passaic, N.J., concrete plasticizer.
Plastoflex: Advance Solvents & Chem. Corp., N.Y.C., plasticisers.
Plastofries: Fries & Fries, Inc., N. Y. C., plasticiser for syn. resins.
Plastogen: R. T. Vanderbilt Co. Inc., N.Y.C., rubber plasticiser.
Plastoid: Plastic Products Co., Detroit, Mich., putty.
Plastok: Richardson Co., Melrose Park, Ill., storage battery material.
Plastolein: Emery Industries, Inc., Cincinnati, O., fatty acids & plasticizers.
Plastoline: Heil Process Equipment Corp., Cleveland, O., coatings.
Plastone: Harwick Standard Chem. Co., rubbing peptizing mat'l.
Plasto-Resin: Advance Solvents & Chem. Corp., N.Y.C., synthetic resin.
Plastorub: Latex Distrs., Inc., Baltimore, Md., rubber.
Plasturia: Reilly Tar & Chem. Co., Indianapolis, Ind., crack filler.
Plat-Chrome: Linick Chem. Co., Chicago, Ill., oxidizing agent.
Platelustre: Maas & Waldstein Co., Newark, N.J., enamels.
PLATING EQUIPMENT ... 682
FILTERS ... 683
Plating Materials see individual headings such as Acid Chromic; Nickel Salts; Silver Cyanide; Copper Cyanide; Sodium Cyanide; etc.
Rack Coatings see Coatings Plating Rack
Platinic Chloride see Acid Chloroplatinic
PLATINUM (metal) ... 349
Chloride see Acid Chloroplatinic
SALTS ... 349
Solder see Solders Precious Metals
PLATINUM LABORATORY WARE ... 683
Platinum Wire, see Wire, Platinum
Playmate: Nat'l Soap Co., Tacoma, Wash., soap and soap products.
Plaxpak: Plax Corp., Hartford, Conn., polyethylene.
Plessy's Green see Chromium Phosphate
Plexene: Rohm & Haas Co., Phila., Pa., thermoplastic copolymer.
Plexiglas: Rohm & Haas Co., Phila., Pa., plastic sheets.
Plexigum: Rohm & Haas Co., Phila., acrylic solution.
Plexpad: Thomas W. Dunn Co., N.Y.C., padding compositions.
Plastic: Paisley Prods. Inc., Chicago, Ill., synthetic resin emulsion adhesives.
Pliatab: Paisley Products, Inc., Chicago, Ill., padding.
Plicast: Plibrico Jointless Firebrick Co., Chicago, Ill., castable refractis.
Pliobond: Chem. Div., Goodyear Tire & Rubber Co., Akron, O., adhesive.
Pliofilm: Goodyear Tire & Rubber Co., Akron, O., packaging material.
Pliojel: Plibrico Jointless Firebrick Co., Chicago, Ill., smoke eliminators.
Pliotex: Midland Glue Products Co., Inc., Detroit, Mich., latex adhesive.
Pliotuf: Chem Div., Goodyear Tire & Rubber Co., Akron, O., resin blend.
Pliovic: Chem. Div., Goodyear Tire & Rubber Co., Akron, O., syn. resin.
Plioweld: Goodyear Tires Rubber Co., Akron, Ohio, rubber lining.
PLUGS FOR STEEL DRUMS ... 683
Plumbago see Graphite
Plumbarge: Glidden Co., Cleveland, lead oxide.
Plumbic Oxide see Lead Oxide Red
Plumbo see Lead Oxide Red
Plumbous Acetate see Lead Acetate
Arsenate see Lead Arsenate
Borate see Lead Borate
Chloride see Lead Chloride
Chromate see Lead Chromate
Fluoride see Lead Fluoride
Iodide see Lead Iodide
Linoleate see Lead Linolate
Molybdate see Lead Molybdate
Nitrate see Lead Nitrate
Oleate see Lead Oleate
Oxide see Lead Oxide, Yellow
Resinate see Lead Resinate
Stearate see Lead Stearate
Stibnate see Lead Antimoniate
Sulfocyanide see Lead Sulfocyanide
Thiosulfate see Lead Hyposulfite
Tungstate see Lead Tungstate
Plumbum see Lead Metal
Piurafil: General Dyestuff Corp., N. Y. C., union dye.
231 Pluramines: Kearny Mfg. Co., Kearny, N. J., syn. detergent.
Pluratex: Canusa Corp., Arlington, N.J., detergents, penetrants, wetting agents, textile finishing compounds.
Pluto: Gen'l Dyestuff Corp., N.Y.C., direct dyes.
Plutoform: General Dyestuff Corp., N.Y.C., direct dye.
Plutonium see Barium, Metal
Plyamine: Reichhold Chems., Inc., Detroit, Mich., resin glues.
Ply-Lac: Lambert Corp., Houston, Texas, lacquers.
Plymax: A. Adler & Son, Phila., Pa., casein glue.
Plymouth: M. W. Parsons Imports, N. Y. C., cosmetic raw materials.
Plymuline: M. W. Parsons Imports, N. Y. C., cream bases.
Plyophen: Reichhold Chemicals Inc., Detroit, Mich., phenolic resins.
Ply-Syn: Lambert Corp., Houston, Texas, syn. enamels.
Pneumix: Eclipse Air Brush Co., Newark, N. J., agitators.
PNEUMATIC DISPATCH SYSTEMS ... 683
Pneumo-Vac: M. O. Grove & Co., San Fran., Calif., filling machines.
Pealwax: Du Pont de Nemours & Co., Ammonia Dept., Wilmington, Del., synthetic wax.
Pogy Oil see Oil Menhaden
Pokey: Houk & Co., Cleveland, O., caulking putty.
Pol: Naugatuck Chem. Div., U. S. Rubber Co., Naugatuck, Conn., baking enamel.
Polar: Barrett Div., Allied Chem. & Dye Corp., N.Y.C., napthalene.
Polartil: Atlas Copper & Brass Mfg. Co., Chicago, Ill., water still.
Polartone: G. S. Robins & Co., St. Louis, Mo., laundry sour.
Polidase: Schwartz Labs., N.Y.C., polyenzyme.
POLISH, BRASS ... 566
FLOOR ... 566
FURNITURE ... 566
GLASS ... 566
METAL ... 566
SILVER ... 566
POLISHES FOR PAINTS, LACQUERS ... 566
Polishing Abrasives see Abrasives Detergent and Polishing
Crocus see Iron Oxide Red
Polithia: Joseph Turner & Co., Ridgefield, N. J., battery retill.
Polle: Kepec Chem. Corp., Milwaukee, Wis., leather finishes.
Pollyresin: Kepec Chem. Corp., Milwaukee, Wis., resin coatings.
Pol-Mer-Ik: Sunnyside Oil Co., Chicago, Ill., linseed oil.
Polox: Lox Mfg. Co., Kansas City, Mo., fluid solder.
Polyac: Du Pont Co., Rubber Chems. Div., Wilmington, Del., accelerator.
Poly Supra: Kreiger Color & Chem. Co., Inc., Los Angeles, Calif., dyes, plastics.
POLYBUTENES ... 349
Polychlorethane see Polyvinyl Chloride
Polychloroethylene see Polyvinyl Chloride
Polycin: Baker Castor Oil Co., N.Y.C., solid, vegetable oils.
Polyclad: Carboline Co., St. Louis, Mo., plastic paint.
Polyco: Amer. Polymer Corp., Peabody, Mass., emulsions.
Polyco coldbond: Amer. Polymer Corp., Peabody, Mass., wood glues.
POLYETHYLBENZENE ... 349
POLYETHYLENE ... 349
GLYCOL OLEATE ... 349
GLYCOL STEARATE ... 349
Polyflex: Plax Corp., Hartford, Conn., polystyrene film.
Polyform: Du Pont Co., Dyestuffs Div., Wilmington, Del., dyes.
Polyisobutylenes see Polybutenes
POLYGLYCOL ... 350
POLYISOBUTYLENES ... 350
Polymerin: Intercheminal Corp., Newark, N. J., speed-bake finish.
Polymel "D": Herron Bros. & Meyer, Inc., Akron, O., rubber plasticiser.
Polymerized Formic Aldehyde see Paraformaldehyde
Poly-pale: Hercules Powder Co., Wilmington, Del., resin.
POLYMERS, METHACRYLIC ESTER ... 346
POLYOXYETHYLENE ESTERS ... 350
Poly-Pax: I. N. Breetwop & Associates, Los Angeles, Calif., film product.
POLYPENTAERYTHRITOL ... 350
Polypentalin: Heyden Chem. Corp., N. Y. C., polypentaerythritol.
POLYPROPYLENE GLYCOLS ... 350
Polysan: Westvaco Chem. Corp., N. Y. C., premium cleaner.
Polysize: Amer. Polymer Corp., Peabody, Mass., resins emulsions.
Polysty-Lac: Maas & Waldstein Co., Newark, N.J., finishes.
POLYSTYRENE ... 350
Polythenes see Polyethylene
POLYVINYL ACETATE ... 350
ACETATE EMULSION ... 350, 566
BUTYRAL ... 351
CHLORIDE ... 351
FORMAL ... 351
POLYVINYLIDENE CHLORIDE ... 351
Poma: Wyandotte Chems. Corp., Wyandotte, Mich., dairy detergent.
Pompeian Red see Iron Oxide Red
Pompey Red see Iron Oxide Red
Ponderous Magnesia see Magnesium Oxide
PONDS, SPRAY ... 683
Ponolith: Du Pont Co., Pigments Dept., Wilmington, Del., lithopone.
Pontachrome: Du Pont Co., Dyestuffs Div., Wilmington, Del., dyes.
Pontacyl: Du Pont Co., Dyestuffs Div., Wilmington, Del., dyes.
Poppy Oil see Oil Poppyseed
PORCELAIN, ACID PROOF ... 683
Porcelain Clay see Clay China
Earth see Clay China
White see Lithopone

PORCELAIN LINING AND BALLS 683
WARE 683
Porcelainite: United Lacquer Mfg. Corp., Linden, N.J., coating.
Porcelain rouge: Chem. Specialties Co., Chicago, Ill., metal polish.
Porcelite: Thomsen-Porcelite Paint Co., Philadelphia, Pa., enamels, paints, varnishes.
Porcemite: Advance Paint Co., Indianapolis, Ind., enamel.
Porchide: Pittsburgh Plate Glass Co., Pittsburgh, Pa., floor paint.
Porocarbon: R. P. Adams Co. Inc., Buffalo, N. Y., filter medium.
Porocel: Attapulgus Clay Co., Phila., Pa., adsorbent catalyst.
Porocreen: R. P. Adams Co. Inc., Buffalo, N. Y., filter medium.
Porostone: R. P. Adams Co. Inc., Buffalo, N. Y., filter medium
Porous Alum see Alum Sodium
Por-San: Huntington Labs., Inc., Huntington, Ind., powdered porcelain cleaner.
Portlan-Sement: Missouri Paint & Varnish Co., St. Louis, Mo., oil paint.
Potash see Potassium Carbonate
Alum see Alum Potash
Caustic see Potassium Hydroxide
Potash Water-Glass see Potassium Silicate
Potassa see Potassium Hydroxide
Potassa Sulphurated see Liver of Sulfur
Potassii Acetas see Potassium Acetate
Bromidum see Potassium Bromide
Chloras see Potassium Chlorate
Iodidum see Potassium Iodide
Sodium see Potassium Iodide
Sulfas see Potassium Sulfate
POTASSIUM 351
ACETATE 351
Acid Carbonate see Potassium Bicarbonate
ACID FLUORIDE 351
Acid Oxalate see Potassium Binoxalate
Acid Sulfate see Potassium Bisulfate
Acid Sulfite see Potassium Bisulfite
Acid Tartrate see Potassium Bitartrate
ALGINATE 351
Aminoacetate see Phenyl Glycine, Potassium Salt
AMMONIUM PHOSPHATE 351
ARSENATE 351
Aurichloride see Gold Potassium Chloride
Biborate see Potassium Borate
BICARBONATE 351
BICHROMATE 351
Bifluoride see Potassium Acid Fluoride
BINIODATE 352
BINOXALATE 352
BISMUTH TARTRATE 352
BISULFATE 352
BISULFITE 352
m-BISULFITE 352
POTASSIUM BITARTRATE 352
BORATE 353
BROMATE 353
BROMIDE 353
CARBONATE 353
Caustic Potash see Potassium Hydroxide
CHLORATE 354
Chloraurate see Gold Potassium Chloride
CHLORIDE 355
CHROMATE 355
CITRATE 356
Cobalt Nitrite see Cobalt Potassium Nitrite
CREOSOTE SULFONATE 355
CYANATE 355
CYANIDE 355
Dichromate see Potassium Bichromate
Diiodo-para-phenolsulfonate see Potassium Sozoiodolate
ETHYL XANTHATE 355
Ferric Oxalate see Iron and Potassium Oxalate
Ferric Potassium Cyanide see Potassium Prussian Red
FERRICYANIDE 355
FERROCYANIDE 355
FLUOBORATE 356
FLUORIDE 356
Fluosilicate see Potassium Silicofluoride
FORMATE 356
GLUCONATE 356
GLYCEROPHOSPHATE 356
GOLD CYANIDE 356
GUAIACOL SULFONATE 356
Hydrate see Potassium Hydroxide
HYDROXIDE 356
Hypemanganate see Potassium Permanganate
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IODATE 358
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IODIDE MIXTURE 358
LACTATE 358
LAURATE 358
LINOLEATE 358
NAPHTHENATE 358
NITRATE 358
OLEATE 358
Orthophosphate see Potassium Phosphate Tribasic
OXALATE 358
Oxymuriate see Potassium Chlorate
OXYQUINOLINE SULFATE 359
PERCHLORATE 359
PERIODATE 359
m-PERIODATE 359
PERMANGANATE 359
PERSULFATE 359
PHENYLACETATE 359
PHOSPHATE DIBASIC 359
PHOSPHATE MONOBASIC 360
PHOSPHATE TRIBASIC 360
Polymannuronate see Potassium, Alginate
Prussiate Red see Potassium Ferricyanide
Prussiate Yellow see Potassium Ferrocyanide
PYRIDINE 360
PYROPHOSPHATE TETRA 360
PYROSULFATE 360

POTASSIUM (cont'd)
Pyrosulfite see Potassium, m-Bisulfite
RESINATE 360
Rhodanide see Potassium Sulfocyanide
RICINOLEATE 360
SALICYLATE 360
SILICATE 360
SILICO FLUORIDE 360
SODIUM FERRICYANIDE 360
SODIUM TARTRATE 360
SOZOIODOLATE 361
STANNATE 361
STEARATE 361
SULFATE 361
SULFIDE 361
SULFITE 361
TARTRATE 361
Tetraborate see Potassium Borate
THIOCYANATE 361
TITANATE 361
TITANIUM FLUORIDE 361
TITANIUM OXALATE 361
XANTHATE 361
Xanthogenate see Potassium Ethyl Xanthate
ZIRCONIUM FLUORIDE 361
Potato Dextrin see Dextrin Potato
Oil see Oil Fusel
Spirit see Alcohol Amyl Normal, see also Oil Fusel
Potato Rx: Thompson Horticultural Chems. Corp., Los Angeles, Calif., sprout inhibitor.
POTENTIOMETERS 683
DEW POINT 683
POTS, HEATED (Electrically) 683
MELTING 683
MIXING 683
NITRATING 683
Poultry Dusting Powders see Dusting Powders Poultry
POUR-POINT DEPRESSANTS 566
Powder of Algaroth see Antimony Oxychloride
Powdered Glass see Ground Glass
Metals see Metals Powdered
Pastes see Pastes Powdered
POWER HOUSE EQUIPMENT 683
Power Stir: Eberbach & Son Co. Inc., Ann Arbor, Mich., lab. stirrer.
POWER TRANSMISSION MACHINERY see also Machinery, Power **Transmission** 683
Poweron: Amer. LaFrance Foamite Corp., Elmira, N. Y., noxzle.
Powr-Save: Aldrich Pump Co., Allentown, Pa., variable stroke pump.
Pozzolith: Master Builders Co., Cleveland, O., cement dispersing agt.
Practi-Kreme: Chemical Corp., Springfield, Mass., skin cream.
Prague Red Sinopis see Iron Oxide, Red
Precipitated Aluminium Oxide see Aluminum Hydroxide
Barium Sulfate see Blanc Fixe
Calcium Phosphate see Calcium Phosphate Tribasic
Chalk see Calcium Carbonate
Iron Carbonate see Iron Oxide Brown
Red Oxide see Iron Oxide Red
Yellow Oxide see Iron Oxide, Yellow
PRECIPITATORS, COTTRELL 683
ELECTRONIC 683
Precision: Chas. W. Young Co., Philadelphia, Pa., wire drawing compounds.
"Precision Molded": Paroffine Companies, Inc. San Francisco, Calif., insulations.
PREHEATERS 683
AIR 683
Premier: Herbert Chem. Co., Cincinnati, O., roof coatings, cleaners.
Premium Graph-O-Lith: Philip A. Hunt Co., film developer.
Premium Selecta: Utah Gilsonite Co., St. Louis, Mo., gilsonite.
Prenol "A": National Rosin Oil Prods Inc., N.Y.C., softeners and plasticizers for rubber industry.
Prenola: Nat'l Rosin Oil & Size Co., N.Y.C., naval stores prods.
Preparaste: Du Pont Co., Finishes Div., Wilmington, Del., primer.
Prep-N-Cote: Neilson Chemical Co., Detroit, Mich., rust proofing.
Prep-Pik-L: Nielson Chemical Co., Detroit, Mich., pickling agent.
Prep-Rite: Neilson Chemical Co., Detroit, Mich., rust proofing.
Prep-Sol: Du Pont Co., Finishes Div., Wilmington, Del., cleaner.
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BRICK, CEMENT, CONCRETE 566
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FABRIC 566
FOOD 566
GUM 567
LEATHER 567
ROPE 567
WOOD 567
Preservol: Ruberoid Co., N.Y.C., wood preservative.
Preset: Bristol Co., Waterbury, Conn., controller.
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BALING 683
BLOCKING 683
BRIQUETTING 683
DEWATERING 683
DRAWING 683
EXTRUDING 683
FILTERING 683
HYDRAULIC 683
LABORATORY 683
MOLDING 684
TABLET MAKING 684
VULCANIZING 684
PRESSURE VESSELS 684
Prestabit: Gen'l Dyestuff Corp., N.Y.C., text. oils.
Preste: V.E.P. Co., Detroit, Mich., primer-surfacer.
Pres-To-Form: Emery-Carpenter Container Co., Cincinnati, O., drum fibre.
Prest-O-Lite: Linde Air Prods. Co., N.Y.C., dissolved acetylene.
Prest-O-Weld: The Linde Air Prods. Co., N. Y. C., oxy-acetylene welding equipt.
Preserva-seal: U. S. Sanitary Specialties Corp., Chicago, Ill., floor seal.
Presur-Seald: Sharples Corp., Phila., Pa., centrifuge.

Pre-tested: M. Grumbacher Inc., N. Y. C., oil colors.
Preventives for Mildew see Mildew Preventives
Rust see Inhibitors Rust
PREVENTIVES, SLIME ... 568
Preventol: General Dyestuff Corp., N.Y.C., mildew preventive agent.
Pre-vent-rust: Stull & Co., Phila., Pa., surface neutralizer.
Primafleur: Fritzsche Bros. Inc., N. Y. C., standardized perfume oils.
Primal: Rohm & Haas Co., Phila., Pa., aqueous acrylic dispersion.
Primary Ammonium Phosphate see Ammonium Phosphate Mono
Monocalcium Phosphate see Calcium Phosphate Monobasic
PRIMERS, LACQUERS ... 568
PAINT, METAL ... 568
PAINT, WOOD ... 569
ROOFING ... 569
Pri-Met: B'klyn Varnish Mfg. Co., Inc., B'klyn, N.Y., anti-corrosive primer.
Primol: Esso Standard Oil Co., N. Y. C., white mineral oils.
Printers' Acetate see Aluminum Acetate Basic
Roller Cleaners see Cleaners Printers' Roller
Printing Inks see Inks, Printing and Lithographing
Ink Pastes see Pastes Printing Ink
Ink Sizes see Sizes Printing Ink
Ink Varnishes see Varnishes Printing Ink
Press Oils see Oils Printing Press
Printweigh: Toledo Scale Co., Toledo, O., weight printing scale.
Prismlac: Maas & Waldstein Co., Newark, N.J., crystallizing lacquers.
PRIVATE FORMULA WORK, AGRICULTURAL SPECIALTIES ... 569
COSMETIC SPECIALTIES ... 569
HOUSEHOLD SPECIALTIES ... 569
INDUSTRIAL SPECIALTIES ... 569
MEDICINAL SPECIALTIES ... 569
PAINTS ... 569
SOAPS ... 569
PROCAINE BASE ... 361
HYDROCHLORIDE ... 362
Pro-Chlor-Mul: G. S. Robins & Co., St. Louis, Mo., insecticide.
PROGESTERONE ... 362
Progress: R-S Laboratories, Chicago, Ill., pine oil disinfectant.
Projectomatic: Christian Becker, Clifton, N. J., projection balance.
Pro-Tek: Du Pont Co., Fabrics & Finishes Dept., Wilmington, protective hand cream.
Prolic: Wallerstein Co. Inc., N. Y. C., silk degumming.
Proliferol: Schuylkill Chemical Co., Philadelphia, Pa., plant growth stimulant.
Pronto: Perolin Co., Inc., N.Y.C., inhibited acid cleaner.
Prontosil Album: see Sulfanilamide
PROPANE ... 362
Propanediol see Propylene Glycol
Propanetriol see Glycerine
Propanol see Alcohol Propyl
Propanone see Acetone
Propellair: Robbins & Myers, Inc., Springfield, O., ventilating fans.
Propellet: Metal Hydrides, Inc., Beverly, Mass., calcium hydride tablets.
Propenal see Acrolein
Propene see Propylene
Propene Nitrile see Acrylonitrile
Oxide see Propylene Oxide
Propenol see Alcohol Allyl
Propenylcarbinol see Alcohol Crotyl
2-Propenyl Isothiocyanate see Oil Mustard Artificial
Propert's: Salomon & Phillips, N.Y.C., leath. dressings.
PROPIONALDEHYDE ... 362
Propionamide Nitrile see Cyanoacetamide
Propione see Diethylketone
PROPIONIC ANHYDRIDE ... 362
Esters see Ethyl Propionate
Ether see Ethyl Propionate
PROPIONYL CHLORIDE ... 362
PROPIOPHENONE ... 362
PROPORTIONERS, BOILER WATER ... 684
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n-PROPYL
ACETATE ... 363
BROMIDE ... 363
Carbinol see Alcohol Butyl Normal
CHLORIDE ... 363
n-PROPYL GALLATE ... 363
p-HYDROXY BENZOATE ... 363
PROPYL IODIDE ... 363
n-PROPYL IODIDE ... 363
OLEATE ... 363
PROPYL STEARATE ... 363
PROPYLENE ... 363
Aldehyde see Crotonaldehyde
CHLOROHYDRIN ... 363
DIAMINE ... 363
DIBROMIDE ... 363
DICHLORIDE ... 363
GLYCOL ... 363
GLYCOL METHYL ETHER ... 364
GLYCOL MONOCOATE ... 364
GLYCOL PHENYL ETHER ... 364
GLYCOL STEARATE ... 364
LAURATE ... 364
OXIDE ... 364
1-Propyne see Methyl Acetylene
2-Propyn-1-ol see Alcohol Propargyl
Protan: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., sodium formate.
Protan: Victor Chem. Wks., Chicago, Ill., reducing agent.
Protan: Wells Color & Chem. Co., Johnstown, N. Y., sodium formate.
Protease: Takamine Lab. Inc., Clifton, N. J., proteolytic enzyme.
Protectar: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., concrete preservative.
Protectogio: Minn Honeywell Regulator Co., Philadelphia, Pa., combustion safe.
Protectol: General Dyestuff Corp., N.Y.C., fibre protective agent
Protectol: Price Fire & Water Proofing Co., Poughkeepsie, N. Y., waterproofing liquid.
Protectolin: Wollen Chem. & Supply Co., Paterson, N. J., soap.
Protectrol: Automatic Control Co., St. Paul, Minn.
Protecto-Shield: Willson Products Inc., Reading, Pa., face mask.
Protegin X: Goldschmidt Chem. Corp., N. Y. C., absorption base.
PROTEIN HYDROLYSATES ... 364
PROTEINS, SOYA BEAN ... 364
VEGETABLE ... 364
Protek-Coat: Davison Chem. Corp., Baltimore, Md., asphalt coating.
Protek-Sorb: Davison Chem. Corp., Baltimore, Md., desiccant.
Protenol K: Continental Chem. Co., Passaic, N. J., detergent.
Protesal: Schwarz Labs., N.Y.C., chiliproof. agent.
Protethyl: Florasynth Labs., Inc., Bronx, N. Y., flavor.
Protex: Wayne Chem. Prods. Co., Detroit, Mich., rust preventive.
Protex Metallum: The Diversey Corp., Chicago, Ill., alkaline cleaner.
Protexide: Protexol Corp., Kenilworth, N.J., wood preservatives.
Protexol: Protexol Corp., Kenilworth, N. J., wood preservatives.
Proto: L. Sonneborn Sons, Inc., N.Y.C., lub. oils
Protol: L. Sonneborn Sons Inc., N.Y.C., white mineral.
Protolac: L. Sonneborn Sons, Inc. N.Y.C. chlorinated rub.
Protolin: Rohm & Haas Co., Phila., Pa., stripping agent.
Protolube: L. Sonneborn Sons, Inc., N.Y.C., lubricating oils.
Protovac: Borden Co., N. Y. C., modified casein.
Protovan: Florasynth Labs., Inc., Bronx., N. Y., flavor.
Protozyme: Jacques Wolf & Co., Passaic, N. J., enzyme.
Prouslac: General Bromochemicals, Inc., Chagrin Falls, O., vitamin A carotene.
Prox-Bar: Pyroxylin Prods. Inc., Chicago, Ill., laminating adhesive.
Proxglas: Pyroxylin Prods. Inc., Chicago, Ill., paper coatings.
Proxmelt: Pyroxylin Prods. Inc., Chicago, Ill., laminating agts.
Proxmesh: Pyroxylin Prods. Inc., Chicago, Ill., wire mesh glazing.
Prox-Peel: Pyroxylin Prods. Inc., Chicago, Ill., packaging material.
Prox-Seal: Pyroxylin Prods. Inc., Chicago, Ill., tape adhesives.
Prox-Wax: Pyroxylin Prods. Inc., Chicago, Ill., laminating waxes.
Prozone: William D. Neuberg Co., Inc., N.Y.C., anti freeze.
Prufcoat: Prufcoat Labs. Inc., Cambridge, Mass., paint.
Pruftex: Pennsylvania Dyestuff Co., Inc., Philadelphia, Pa., moth-proofers.
Pruftite: Prufcoat Labs., Inc., Cambridge, Mass., transparent waterproofing.
PRUSSIAN BLUE ... 364
Red see Iron Oxide Red
Prussiate of Potash see Potassium Ferricyanide
of Soda see Sodium Prussiate Yellow
Pseudocumidine see Cumidine
PSYCHROMETERS ... 684
PSYLLIUM SEED ... 364
Puce see Lead Peroxide
Puerine: Martin Dennis Co., Newark, N.J., tanners' bate.
PULLEYS ... 684
MAGNETIC ... 684
Pulp Bleaches see Bleaches Paper and Pulp
Pulp colors: Collway Colors Inc., Paterson, N. J., dry colors.
Oil see Aluminum Acetate Basic
Pul-Pac: Clark Equipt. Co., Battle Creek, Mich., spc. handling device.
Pulverators: Allis-Chalmers, Milwaukee, Wisc., crushers.
PULVERIZERS ... 684
"Pulvite": Milwaukee Chemical Co., Milwaukee, Wis., detergent powder.
Pulvo: New England Lime Co., Pittsfield, Mass., lime
Pumex see Pumice Stone
PUMICE STONE ... 364
PUMPS, ACID ... 684
PUMPS, ACID RESISTING ... 685
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FORCED-INDUCTION ... 687
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GLASS ... 687
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JET (Steam, Air Water) ... 687
LINED ... 687
LUBRICANT ... 687
MIDGET ... 687
NON-LUBRICATED ... 687
OIL ... 687
OPEN IMPELLER ... 687
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SANITARY ... 688
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SELF PRIMING ... 688
SEWAGE ... 688
SLURRY ... 688
STEAM ... 688
STEAM JACKETED ... 688
SUCTION ... 688
SUMP ... 688
TURBINE ... 688
VACUUM ... 688
VACUUM (Mercury Vapor) ... 688
VACUUM STONEWARE ... 689
VERTICAL CENTRIFUGAL ... 689
VOLUTE ... 689
Puratized: General Dyestuff Corp., N.Y.C., mildew preventive agent.
"Purcol": Manahan Chem. Co., Inc., B'klyn, N.Y., fur dyes.

Pure Cal: Western Lime & Cement Co., Milwaukee, chem. hydrated lime.
Purecal: Wyandotte Chems. Corp., Wyandotte, Mich., calcium carbonate.
Pureco: Pure Carbonic Co., N. Y. C., carbon dioxide.
Puroline: Sherwood Refining Co., Inc., Englewood, N. J., petroleum jelly.
Pure-Tex: Cidex Corp., Jersey City, N.J., germicide-fungicide.
Purgall: Warren Refg. & Chem. Co., Cleveland, Ohio, floor cleaner.
Purified Ozokerite see Wax Ceresin
Purit: National Filter Corp., N. Y. C., filter material.
Puritan Maid: Puritan Compressed Gas Corp., Kansas City, Mo., anesthetic gases.
Puritose: Corn Prods. Refg. Co., N. Y. C., corn syrup.
Purity: Eaton-Dikeman Co., Mt. Holly Springs, Pa., analytical filter papers.
Pur-O-Cel: Proportioneers Inc., Providence, R. I., filter.
Purogen: Martin Dennis Co., Newark, N.J., tanners' bate.
Pur-O-Tin: Du Pont Co., Electroplating Div., Wilmington, tin anodes.
Purox: Linde Air Prods. Co., N.Y.C., oxy-acetylene welding equipt.
Purox: Linde Air Prods. Co., N.Y.C., welding & cutting compo.
Puroxine: Du Pont Co., Electro Chems. Dept., Wilmington, zinc anodes.
Purple Oxide see Iron Oxide Red
Salt see Potassium Permanganate
Putlite: Ever-Plastics Corp., N. Y. C., putty.
Putnam Clay: United Clay Mines Corp., Trenton, N.J., pottery clay.
PUTTY ACID-RESISTANT 569
Oils see Oils Putty
Softeners see Softeners Putty
P-V Marking Opaque: M. Grumbacher Inc., N. Y. C., vinylete colors.
Pz: Heathath Corp., Springfield, Mass., process steel.
Pycal: Atlas Powder Co., Wilmington, Del., plasticizing, dispersing and wetting agents.
Pyla Quick: Pylam Prods. Co. Inc., N. Y. C., broom corn dyes.
Pylabrite: Pylam Prods. Co. Inc., N. Y. C., plastic colors.
Pyla-Cert: Pylam Products Co., Inc., N.Y.C., certified dyes.
Pylakion: Pylam Products Co., Inc., N.Y.C., fast colors.
Pylakol: Pylam Prods. Co. Inc., N. Y. C., dyes.
Pylakromes: Pylam Prods. Co., N.Y.C., oil dyes.
Pyla-Tels: Pylam Prods. Co. Inc., N. Y. C., indicators.
Pyla-White: Pylam Products Co., Inc., N.Y.C., bleach for kerosene.
Pyoktanin Blue see Methyl Violet
Pyralin: E I du Pont de Nemours & Co., Plastics Dept., Wilmington, Del., cellulose nitrate.
Pyramid: Marx, Max Color & Chem Co., Irvington, N. J., tungstated toners.
Pyramid: Tamms Industries Inc., Chicago, Ill., filler.
Pyramid Towers: Max Marx Color & Chem. Co., Irvington, N. J., colors.
Pyramidone see Aminopyrine
Pyra-Prep: Du Pont Co., Finishes Div., Wilmington, Del., sealer.
Pyra-Seal: Vestal Incorporated, St. Louis, Mo., floor seal.
Pyratherm: Mercoid Corp., Chicago, Ill., safety control.
Pyrax: R. T. Vanderbilt Co. Inc., N. Y. C., pyrophyllite.
Pyrazol: Sandoz Chem. Wks., Inc., N. Y. C., dyestuffs.
Pyrefume: S. B. Penick & Co., N.Y.C., insecticide base.
Pyrenone: U. S. Industrial Chems. Inc., N.Y.C., insecticide.
Pyresote: Protexol Corp., Kenilworth, N.J., wood preservatives.
PYRETHRUM 365
EXTRACTS 569
Pyrex: Corning Glass Wks., Corning, N. Y.
Pyrexcel: S. B. Penick & Co., N.Y.C., insecticide base.
PYRIDINE 365
2-PYRIDONE 365
Pyridose: Mallinckrodt Chem. Wks., St. Louis, Mo., paper mill slime control.
Pyridoxine Hydrochloride see Vitamin B6
Pyrimid Metrione see Acid Barbituric
PYRIDYL MERCURIC ACETATE 365
CHLORIDE 365
STEARATE 366
Pyrimidinetrione see Acid Barbituric
PYRITES 366
Pyrix: Chemical Insecticide Corp., Brooklyn, N. Y., pyrethrum extract.
Pyro see Sodium Pyrophosphate, Tetra
Pyrocatechinic Acid see Pyrocatechal
Pyrocatechin see Pyrocatechol
PYROCATECHOL 366
Pyrocide: McLaughlin Gormley King Co., Minneapolis, Minn., pyrethrum extract.
Pyrocon: Illinois Testing Labs., Inc.
Pyro-Cota: State Mfg. Co. Inc., Cleveland, O., soot eradicator.
Pyroflex: Maurice A. Knight, Akron, Ohio, tank linings.
Pyrogallol see Acid Pyrogallic
Pyro Lance: Illinois Testing Labs., Inc.
Pyrolex: Wollen Chem. & Sup. Co. Paterson, N.J., fuel oil solvent.
Pyroligneous Vinegar see Acid Pyroligneous
Pyrolube: Kano Laboratories, Chicago, Ill., lubricant.
Pyromaster: Bristol Co., Waterbury, Conn., pyrometer.
PYROMETERS 689
Pyromucic Aldehyde see Furfural
Pyromucyl Chloride see Furoyl Chloride
Pyrophosphate of Calcium see Calcium Pyrophosphate
of Soda see Sodium Pyrophosphate Tetra
PYROPHYLLITE 366
Pyroracemates see Pyruvate Salts
Pyrosodium Phosphate see Sodium Pyrophosphate Tetra
Pyrotex: Stand. Chem. Prods., Inc., Hoboken, N.J., penetrator & detergent.
Pyro-Tran: Scientific Glass Apparatus Co., Inc., Bloomfield, N.J., transformed-pyrometer.
Pyrotrol: Bristol Co., Waterbury, Conn., combustion safeguard.
Pyrotron: Bailey Meter Co., Cleveland, O., pyrometer.
Pyr-O-Vone: Minneapolis Honeywell Regulator Co., Phila., Pa., controller.
Pyroxalin: A. R. Haeuser Co., N.Y.C., sizings
Pyroxcote: Pyroxylin Prods. Inc., Chicago, Ill., lacquers.
Pyroxylic Spirit see Methanol
PYROXYLIN, SCRAP 366
SOLUTIONS 366
Pyroxylin see Collodion and Nitrocellulose
Pyroxylinum see Pyroxylin Solutions
Pyrrolylene see Butadiene
PYRUBIC ALDEHYDE 366

Q

Q-Alloys: General Alloys Co., Boston, Mass., corrosion resistant castings.
Q-Chromastic: Quigley Co., Inc., N.Y.C., surfacing material.
Q-Chrome: Quigley Co., Inc., N.Y.C., bonding mortar.
Q Seal: Quigley Co., Inc., N. Y. C., sealing comp.
Quadrafos: Heyden Chem. Corp., N. Y. C., sodium tetraphosphate.
Quadrasuds: Rumford Div., Heyden Chem. Corp., Rumford, R.I., detergent.
Quadrovan: Felton Chem. Co., Inc., Bklyn., N. Y., vanilla.
Quaker: Pennsylvania Salt Mfg. Co., Phila., Pa., bleaching powder.
Quaker: R. T. Vanderbilt Co., N.Y.C., whiting.
Quakerox: Wagner Co. Inc., Phila., Pa., syn. iron oxide.
Quaker-sol: Commercial Solventa Corp., N. Y. C., proprietary solvent.
Quakesters: Quaker Chem. Prods. Corp., Conshohocken, Pa., non-ionic emulsifiers.
Quality: Gillam Soap Works, Ft. Worth, Texas, soap chips.
Quandt: Gamlen Chem. Co., San Fran., Calif., core oil.
QUARTZ 366
APPARATUS AND EQUIPMENT 689
FUSED 689
Quarts: see Silica
Quasol: Quaker Chem. Prods. Corp., Conshohocken, Pa., emulsion cleaners.
QUATERNARY AMMONIUM COMPOUNDS 366
QUEBRACHO EXTRACT 366
Queen: Gross Drug Co., Harrisburg, Pa., carbon paper.
Queen Bee: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., coke.
Quenalate: Mallinckrodt Chem. Wks., St. Louis, Mo., oxyquinoline benzoate sol.
Quenching Oil see Oils Quenching
Quercetin see Quercitron Extract
Quercin see Oak Extract
QUERCITRON BARK 366
EXTRACT 366
Quick-Aid: General Detroit Corp., Detroit, Mich., fire extinguishers.
Quick-Change: Wright-Austin Co., Detroit, Mich., water gauges.
Quick-Clean: Allis-Chalmers, Milwaukee, Wisc., textile motors.
Quick-Cut: Indico, Inc., Chicago, Ill., paint remover.
Quick Create: The Reardon Co., St. Louis, Mo., hot water kalsomine.
Quickhesives: Standard Glue Co., N. Y. C., syn. glue emulsions.
Quick Lime see Lime
Quick stick: Commercial Paste Co., Columbus, O., paste powder.
Quick Strip: Universal Paint & Varnish Co., Cleveland, Ohio, finisher.
Quickee: Braden Sutphin Ink Co., Cleveland, O., printing inks.
Quicklift: Lewis Shepard Prods., Inc., Watertown, Mass., hand lift trucks.
Quick-N-Eze: Warren Refg. & Chem. Co., Cleveland, Ohio, dairy cleaner.
Quick-set: Amer. Fluresit Co., Cincinnati, O., moistureproofs concrete.
Quickshyne: U. S. Sanitary Specialties Corp., Chicago, Ill., furniture polish.
Quicksilver see Mercury
Vermilion see Mercury Sulfide Red
Quik-bake: Lacquer & Chem. Corp., B'klyn, N.Y., synthetics.
Quillaja see Soap Bark
Quillaia see Soap Bark
QUINALDINE 367
QUINCE SEED 367
***Quincy:** Calcium Carbonate Corp., whiting.
QUINHYDRONE 367
QUINIDINE 367
SULFATE 367
QUININE 367
b-Quinine see Quinidine-Alkaloid
Quinine Hydrochlorate see Quinine Hydrochloride
QUININE BISULFATE 367
QUININE HYDROCHLORIDE 367
QUININE SULFATE 367
QUINIZARINE 367
Quinn: Quinn & Co., Inc., K. S., East Boston, Mass., var. spec.
Quinol see Hydroquinone
QUINOLINE 368
QUINONE 368
Quinonemonoxime see Paranitrosophenol
Quinophan [B.P.C.] see Cinchophen
Quintite: Colonial Chem. Co., Seattle, Wash., diatomaceous earth.
Quixol: Comm'l Solvents Corp., N.Y.C., anhyd. proprietary solvent.

R

R: Neville Co., Pittsburgh, Pa., synthetic resin.
R-1: Rodman Chemical Co., Verona, Pa., quenching oils.
RCC: Rogers Chemical Corp., Detroit, Mich., paints.
RH: Du Pont Co., Electrochemicals Dept., Wilmington, Del., brightener.
R & I: Refractory & Insulation Corp., N. Y. C., insulating block.
R.I.D.: Green Line Chem. Corp., St. Louis, Mo., insecticide.
R-M: Asbestos Textile & Packing Div., Manheim, Pa., asbestos prods.
R M: Raybestos-Manhattan Inc., Manheim, Pa., asbestos prods.
RO-CO: Rowe & Co., Norfolk, Va., flavoring extracts.
R P G: Arnold, Hoffman & Co., Inc., Prov., R. I., thickener.
"RS": Hercules Powder Co., Wilmington, Del., nitrocellulose.
R.S.R.: Wallerstein Co. Inc., N. Y. C., spot remover.
R. V. Flat: R. B. H. Dispersions, Inc., Bound Brook, N. J., dry flatting agt.
R.W.P.O.: Reilly Tar & Chem. Corp., Indianapolis, Ind., wood preservative.
Raddle see Iron Oxide, Red
Radex: Damon Chemical Co., Alliance, O., radiator cleaners.
Radiactine: Sandoz Chem Wks., Inc., N. Y. C., levelling agt.
Radiant Reds: Ansbacher-Siegle Corp., Rosebank, S. I., N. Y., pigments.
Radiantrol: Homestead Valve Mfg. Co., Coraopolis, Pa., heating valves.
Radio: General Dyestuff Corp., N.Y.C., acid dye.
Rainbow Aniline Colors: Murray-Williams Color & Chem. Co., Maplewood, N. J., wood stains.
Rainbow Dry Colors: Murray-Williams Color & Chem. Co., Maplewood, N. J., dry pigments.
Rainchek: Protection Products Mfg. Co., Kalamazoo, Mich., water repellent.
Raino: National Soap & Chem. Co., Minneapolis, Minn., oil soap.
Rainy Day: Protection Products Mfg. Co., Kalamazoo, Mich., water repellent.
Raldeine: Givaudan-Delawanna, Inc., N.Y.C., methyl ionone.
Ramasit: Gen'l Dyestuff Corp., N.Y.C., water repellent.

Ramasol: General Dyestuff Corp., N.Y.C., water repellent agent.
Rambo #1: H. N. Richards Co., Trenton, N.J., calcium carbonate.
Ramol: Sherwood Refg. Co. Inc., Englewood, N. J., white mineral oils.
Rampellent: Perm-Aseptic Corp., Mamaroneck, N. Y., water repellant.
Rampley: Perm-Aseptic Corp., Mamaroneck, N. Y., germicides.
Ramuc: Inertol Co., Inc., Newark, N.J., enamel.
Ranarex: Permutit Co., N. Y. C., gas density measurer.
RANCIDITY PREVENTIVES (Oil) 570
Ranco: National Soap & Chemical Co., Minneapolis, Minn., liquid soap.
Rangeon Maroon: Anabacher-Siegle Corp., Rosebank, S. I., N. Y., beta oxy naphthoic maroon.
Rape Oil: see Oil Rapeseed.
Rapeseed Oil see Oil Rapeseed
Rapidase: Wallerstein Co. Inc., N. Y. C., desizing agent.
Rapid Fast: General Dyestuff Corp., N.Y.C., insoluble azo dye.
Rapidex: Carlton Chemical Co., Inc., N. Y. C., hand paste.
Rapid-Flo: Johnson & Johnson, Filter Prods. Div., Chicago, Ill., filters.
Rapidogen: Gen'l Dyestuff Corp., N.Y.C., textile dye.
Rapidole: Warwick Chem. Co. Div., Warwick, R. I., wetting agts.
RARE EARTH PRODUCTS 368
Gases see Argon and Gases Rare
METALS 368
METAL SALTS 369
Rasorite: Pacific Coast Borax Co., N. Y. C., sodium borate ore conc.
Raspite see Lead Tungstate
Rat Exodus: Williams Chemical Corp. of Miami, Fla., rodenticide.
Ratrol: Thompson-Hayward Chem. Co., Kansas City, Mo., rodenticide.
Rav: Industrial Process Engineers, Newark, N. J., agitator drives.
Ravinix: C. B. Hewitt & Bros. Inc., N. Y. C., for rayon.
Raydur: Maas & Waldstein Co., Newark, N.J., baking enamels.
Raygel: Colloids Inc., Newark, N. J., warp size rayon.
Rayiabric: E. F. Houghton & Co., Philadelphia, Pa., rayon oils.
Raynise: Gen'l Dyestuff Corp., N.Y.C., text. sizing agt.
Ray-o-shine: Vejin Inc., Cincinnati, O., auto polish.
Rayotube: Leeds & Northrup Co., Phila., Pa., temperature detectors.
Rayox: R. T. Vanderbilt Co. Inc., N. Y. C., titanium dioxide.
Raysil: R. T. Vanderbilt Co., N.Y.C., titanated pigment.
Raytex: Textile Prods. Co., Prov., R.I., rayon finishing comp.
Raytint: Krebs Pigment & Color Corp., Wilmington, paint pigment.
Raytone: A. Adler & Son, Phila., Pa., kalsomine.
Raywhite: Rainier Pulp & Paper Co., San Fran., sulphite pulp.
Raywte: Reliance Chem. Prods., Inc., E. Prov., R.I., text. pigment.
RC: Link-Belt Co., Indianapolis, class roller chain.
RC: Link-Belt Co., Indianapolis, flexible shaft couplings..
Re Umberto: Strohmeyer & Arpe Co., N. Y. C., olive oil.
REACTORS 689
Reagent Chemicals see Chemicals Analytical
Realgar see Arsenic Red
Realjwik: Rushil Paint Co., Cincinnati, O., enamel.
Reardibard: Reardon Industries Inc., Cincinnati, O., concrete hardener.
Reardoncolor: Reardon Industries, Cincinnati, O., concrete colors.
Reardonite: Reardon Industries, Cincinnati, O., fireproofing cement.
Recco: R. E. Carroll, Inc., Trenton, N. J., clays.
RECLAIMERS, WASTE HEAT 689
Reclaiming Oils see Oils Reclaiming
RECORDERS, CARBON DIOXIDE 689
CONDUCTIVITY 689
GAS ANALYSIS 689
HUMIDITY WET & DRY BULB 689
LIQUID LEVEL 689
PRESSURE 689
SMOKE DENSITY 690
SPECIFIC GRAVITY 690
TEMPERATURE 690
Rectified Tar Oil see Oil Tar
Rectorseal: Rector Well Equipment Co., Inc., Houston, Tex., gasket paste, pipe joints.
Red Argols see Argols
Red Arsenic Glass see Arsenic Red
Red Arsenic Sulfide see Arsenic Red
Red Ball: Kneffer-Baten Co., Indianapolis, Ind., dry paste.
Red Bole see Iron Oxide Red
Red Chalk see Iron Oxide Red
Red Cross: Du Pont Co., Explosives Dept., Wilmington, Del., dynamite.
Red Devil: Pecora Paint Co., Inc., Phila., Pa., furnace cement.
Red Diamond: Amer. District Steam Co., N. Tonawanda, N. Y., casing.
Red Diamond: Liquid Carbonic Corp., Chicago, Ill., dry ice.
Red Diamond: Sherwin-Williams Co., Cleveland, carbon paint.
Red Earth see Iron Oxide Red
Red Gum see Gum Accroides
Red H: Hercules Powder Co., Wilmington, Del., dynamite.
Red Head: Frank G. Fanning Co., N. Y. C., lanolin.
Red Iron Trioxide see Iron Oxide Red
Red Lead see Lead Oxide, Red
Red Letter: The Ruby Chemical Co., Columbus, O., soldering flux.
Red Liquor see Aluminum Acetate Basic
Red Man: Lenape Hydraulic Pressing & Forging Co., West Chester, Pa.
Red Marvel: Uncle Sam Chem. Co. Inc., N. Y. C., metal polish.
Red Mercuric Sulfuret see Mercury Sulfide Red
Red Ochre see Iron Oxide Red
Red Oil Fig: Draper Soap Co., Pawtucket, R. I., wool scouring soap.
Red Oil see Oil Turkey Red
Red Orpiment see Arsenic Red
Red Oxide see Iron Oxide Red
Red Phosphorus see Phosphorus Red
Red Pigments see Pigments Red
Red Potassium Chromate see Potassium Bichromate
Red Precipitate see Mercuric Oxide Red
Red Prussiate of Potash: see Potassium Prussiate Red and Potassium Ferricyanide
Red Rudd see Iron Oxide Red
Red Star: Genseke Bros., Chgo., tanner's soap.
Red Stone see Iron Oxide Red
Red Tag: Emulsol Corp., Chicago, Ill., egg yolk.
Red Toners see Toners Red
Red Top: Champion Chem. Wks., N. Y. C., lye.
Red Top: Commercial Paste Co., Columbus, O., school paste.
Red-Chief: Webb Belting Co., Kansas City, Mo., rubber belting.
Reddle see Iron Oxide Red
Reddy: Commercial Paste Co., Columbus, Ohio, waterless cleanser.
Redgem: R. T. Vanderbilt Co. Inc., N. Y. C., rubber plasticizer.
Redilift: Lewis Shepard Prods., Inc., Watertown, Mass., hand lift trucks.
Redi-set: Sun Chemical Corp., L. I. C., N. Y., offset inks.
Redium: R. T. Vanderbilt Co. Inc., N. Y. C., selenium.
Redler: Stephens-Adamson Mfg. Co., Aurora, Ill., conveyor-elevators.
Redolene: W. C. Hardesty Co., Inc., N. Y. C., red oil.
Red-Reading-Mercury: Palmer Thermometers Inc., Norwood, Cincinnati, O., thermometers.
Re-Dress: Chemical Mfg. Sales Co., Chicago, Ill., top-dressing.
Redsol: Amer. Cyanamid Company, Industrial Chems. Div., ferricyanides.
REDUCERS, SPEED 690
Reducit: Infilco, Inc., Chicago, Ill., thinner.
Red Wing: Pittsburgh Plate Glass Co., Linseed Oil Div., Red Wing, Minn., linseed oil.
Reel Kleen: National Chem. Co., Los Angeles, Calif., waterless hand cleaner.
Ree-root: Thompson Horticultural Chems. Corp., Los Angeles, Calif., hormone rooting powder.
Refelite: Price Fire & Water Proofing Co., Poughkeepsie, N.Y., finisher.
Refined Tar see Tar Refined
REFINERY EQUIPMENT 690
Refrasil: H. I. Thompson Co., Los Angeles, Calif., insulation.
REFRACTOMETERS 690
REFRACTORIES 570, 690
Refractory Cements see Cement Refractory
Clay see Clay Refractory
Refrax: Carborundum Co., Perth Amboy, N. J.
REFRIGERANTS 369
REFRIGERATING EQUIPMENT 690
Refrigerating Gases see Gases Refrigerating
Refrigerator Enamels see Enamels Refrigerator
Lacquers see Lacquers Refrigerator
Oils see Oils Refrigerator
Regal: Regal Chem. Co., N.Y.C., var. spec.
Regaline Blue: Whittaker, Clark & Daniels Inc., N. Y. C., color.
Regent 12XX: Victor Chem. Wks., Chicago, Ill., baking acid.
Rego: National Cylinder Gas Co., Chicago, Ill., welding & cutting apparatus.
Regular Selects: Utah Gilsonite Co., St. Louis, Mo., gilsonite.
REGULATORS, AIR 690
DRAFT 690
FEED WATER 690
GAS 690
PRESSURE 690
TEMPERATURE 690
REINFORCING AGENTS RUBBER 570
RELAYS, ELECTRIC 690
TEMPERATURE CONTROL 690
Relewite: Allen Burns Co., Buffalo, N. Y., shoe cleaner.
Relion: The Diversey Corp., Chicago, Ill., bottle washing comp.
Remoigan: General Dyestuff Corp., N. Y. C., leather softening agent.
Remonol: Seydel Chemical Co., Jersey City, N.J., resorcinol monoacetate.
Remosil: Westvaco Chem. Corp., silica removing boiler compd.
REMOVERS, CARBON, MOTOR 570
OIL AND GREASE 570
PAINT AND VARNISH 570
TEXTILE STAINS 570
Removite: Chem. Spec. Co., Los Angeles, Calif., paint remover.
Re-mov-oil: Stull & Co., Phila., Pa., oil absorbent comp.
Renesite: Atlas Powder Co., Wilmington, Del., wetting agents.
Renewo: Lunkenheimer Co., Cincinnati, O., valves.
Renex: Atlas Powder Co., Wilmington, Del., detergents.
Rensselaerite see Talc
Re-Nu: Chem. Engng. Sales Co., Chicago, Ill., plastic wood.
Re-Nu: Chemical Mfg. Sales Co., Chicago, Ill., surface-floors.
Repel: Northwoods Products Co., Florence, Wis., insect repellent.
Repella: Consolidated Chem. Industries Inc., San Francisco, Calif., bone oil.
Repellene: Glover M. Birk, New Albany, Ind., textile waterproofing.
Repellite: Reardon Industries Inc., Cincinnati, O., waterproofing powder.
Repello: Scher Bros., Clifton, N. J., water repellent.
Repel-O-Tex: Onyx Oil & Chem. Co., Jersey City, N. J., water repellents.
Repelseal: American Marietta Co., Seattle, Wash., plywood sealer.
"Repubmet": Republic Metals Co., B'klyn, N. Y., bar solder.
Resanilia: Felton Chem. Co., Inc., Bklyn., N. Y., imitation vanilla conc.
Resemul: Fiber Chemical Corp., Cliffwood, N.J., resin emulsion.
Resicol: C. J. Osborn Co., N.Y.C., pigment dispersion.
Resigum: Paisley Prods., Inc., Chicago, Ill., sizing adhesives.
Resiloid: Colloids Inc., Newark, N. J., warp size rayon.
Resin C: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., resinous compounding material.
Resimene: Monsanto Chem. Co., Plastics Div., Springfield, Mass., melamine molding compds.
RESIN EMULSIONS 571
RESIN FILM 571
FURFURYL ALCOHOL 571
RESIN SOLUTION 571
VINYL ORGANISOL 571
VINYL PLASTISOL 571
Resina see Rosin Gum
Resinessence: Ph. Chaleyer, Inc., N. Y. C., gum extracts.
Resinex: Scher Bros., Clifton, N. J., urea-formaldehyde resins.
Resinex: Harwick Standard Chem. Co., Akron, O., polymerized aromatic resins.
Resinide: Sterling Chems. Inc., N. Y. C., synthetic resins.
Resinones: P. R. Dreyer Inc., N.Y.C., perfume resins.
Resinox: Monsanto Chem. Co., Springfield, Mass., phenolic molding compds.
RESINS 369
RESINS, ACRYLIC 369
ALKYD 369
AROMATIC 370
COAL-TAR 370
COATING 371
COUMARONE 371
HYDROCARBON 371
ION EXCHANGE 371
MALEIC 371
MELAMINE 371
METHACRYLATE 371
NATURAL 371
Nitrocellulose: Atlas Powder Co., Wilmington, Del.
OIL-PROOF 371, 372
PHENOL-FORMALDEHYDE 371

RESINS (cont'd)

PHENOL FURFURAL 371
PHENOLIC (Modified) 371
POLYAMIDE 372
POLYESTER 372
POLYSTERENE 372
PRINTING INK 372
RESORCIN 372
ROSIN DERIVATIVES 372
RUBBER 372
SYNTHETIC 372
TERPENE 375
UREA FORMALDEHYDE 375
VARNISH 572
VINYL 375
WATER SOLUBLE 375
WRINKLING 572

Resi-Rap: Painley Products, Inc., Chicago, Ill., resin glue.
Resiscote: Reilly Tar & Chem. Corp., Indianapolis, Ind., paint.
Resistowax: General Wax Refining Co., N. Y. C., syn. wax.
Resizet: Takamine Lab., Inc., Clifton, N.J., sizing agent
Resodors: Sindar Corp., N. Y. C., odors for plastics & resins.
Resoform: General Dyestuff Corp., N.Y.C., dye for resins.
Resolin: Sandoz Chem. Wks., Inc., N. Y. C., wetting agt.
Resorcin see Resorcinol

RESORCINOL 375
RESORCINOL MONOACETATE 375

Resorcinolphthalein see Fluorescein
Reso-Rubr: Benjamin Foster Co., Phila., Pa., rubber tile cement.

RESPIRATORS 690

Res-Talic: Benjamin Foster Co., Phila., Pa., metal protective paints.
Restfoam: Hewitt Rubber Div., Buffalo, N. Y., seat cushions.
Restorex: Penetone Co., Tenafly, N. J., paint brush cleaner.
Resynon: Arnold, Hoffman & Co., Inc., Prov., R.I., finishers.

RETARDANTS, DYE 572
RETARDANTS, RUBBER 572

Retarder W: Du Pont Co., Rubber Chems. Div., Wilmington, Del., rubber chem.
Retardex: C. P. Hall Co., Akron, O., vulcanization retarder.
Retardex: Standard Chem. Products, Inc., Hoboken, N. J., retarding agent.
Retardine: Standard Chem. Prods., Inc., Hoboken, N. J., retarding agent.
Retinol see oil Rosin.

RETORTS, PROCESSING 690

Rev Dust: Milwhite Co., Houston, Texas, insecticidal clay.
Reversible: Penn. Crusher Co., Phila., Pa., rock crushers.
Reversoid: Research Products Co., Ltd., Huntington Park, Calif., separating agents.
Rewbon: Atlas Mineral Prods. Co., Mertztown, Pa., rubber lining.
Rex: Armiger Chem. Co. Inc., Chicago, Ill., metal polish.
Rex: Chicago Metal Hose Corp., Maywood, Ill., metal hose.
Rex: Cole & DeGraf, San Francisco, Calif., wall size.
Rex: Imperial Paper & Color Corp., Glens Falls, N. Y., molybdate orange.
Rex: Kem Labs., Bronx., N.Y., laundry sour.
Rex: Phoenix Oil Products Corp., Newark, N.J., wool grease alcohols.
Rexon: Coddington Mfg. Co., Milwaukee, Wisc., paint.
Rexpar: Sherwin-Williams Co., Chicago, Ill., spar varnish.
Rexyl: Amer. Cyanamid Co., N. Y. C., resins.
Resex: Elgin Softener Corp., Elgin, Ill., resinous zeolite.
Rez-n-Bond: Schwartz Chem. Co., Inc., N. Y. C., acrylic cement.
Rez-n-Dye: Schwartz Chem. Co., Inc., N. Y. C., colors for plastics.
Rez-n-Glue: Schwartz Chem. Co., Inc., N. Y. C., vinyl-base adhesive.
Rez-n-Lac: Schwartz Chem. Co., Inc., N. Y. C., plastic-base lacquer.
Rez-n-Rleen: Schwartz Chem. Co., Inc., N. Y. C., plastic cleaner.
Rezo: Glyco Prods. Co., Inc., Bklyn., N. Y., syn. wax.
Rezyl: Amer. Cyan. Co., Industrial Chems. Div., N.Y.C., synth. resin.
R-H Rahpal: Reasor-Hill Corp., Jacksonville, Ark., insecticides.
Rhap: Reasor-Hill Corp., Jacksonville, Ark., insecticide.

RHENIUM (metal) 375

RHEOSTATS 690

Rhinoskin: Gibbs Paint Mfg. Co., Euclid, O., concrete paint.
Rhinamel: Tropical Paint & Oil Co., Cleveland, O., high gloss colors.
Rhino: Pecora Paint Co., Inc., Phila., Pa., calking comps.
Rhodamine: General Dyestuff Corp., N.Y.C., basic dye.

RHODINOL 375

Rhodione see Chemicals Aromatic

RHODIUM (metal) 375

Rhoduline: Gen'l Dyestuff Corp., N.Y.C., basic dyes.
Rhombic Spar see Dolomite
Rhonite: Rohm & Haas Co., Phila., Pa., text. finisher.
Rhoplex: Rohm & Haas Co., Phila., Pa., text. finisher.
Rhotex: Rohm & Haas Co., Phila., Pa., text. sizing.
Rhothane: Rohm & Haas Co., Phila., Pa., insecticide.
Rhozyme: Rohm & Haas Co., Phila., Pa., industrial enzymes.
Rhotone: Rohm & Haas Co., Phila., Pa., textile printing pastes.
Rhus Glabra see Sumac
Rico: Microchemical Specialties Co., Berkeley, Calif., radioisotope apparatus.
Riboflavin see Vitamin B2
Ribotvit: Fallek Products Co., Inc., N.Y.C., vitamin preparation.
Ribtex: Multi Metal Wire Cloth Co., Inc., N.Y.C., mud screen cloths.
Rice Starch see Starch Rice
Richelain: Richardson Co., Melrose Park, Ill., plastics.
Richmond: Adelphi Paint & Color Wks., Ozone Pk., N. Y., paints, enamels.
Ricinus see Castor Bean
Oil see Oil Castor
Ricosol: Purite Rico Alcohol Co., Inc., N.Y.C., solvent alcohol.
Rid-O-Moth: Standard Chlorine Chem. Co., moth preventive.
Riebeck: Strohmeyer & Arpe Co., N. Y. C., montan wax.
Rigortex: Inertol Co., Inc., Newark, N.J., enamel.
Rimag: Faesy & Besthoff, Inc., N. Y. C., rimming agent.
Rincontrol: Interchemical Corp., Newark, N. J., wrinkle finish.
Rinfors: Sandoz Chem. Wks., Inc., N. Y. C., detergent.
Ring Seal: Viking Prods. Sales Co., Hazel Park, Mich., air valves.

RINGS, RASCHIG 690

Ringkey: Multi-Metal Wire Cloth Co., Inc., N. Y. C., construction.

RINSERS, BOTTLE 690
CAN 690

Rinsing Tanks: Geo. W. Diener Mfg. Co., Chicago, Ill., safety appliance.
Rinsynol: Alrose Chemical Co., Cranston, R.I., alkyl sulfonate.
Rio Arrowroot see Tapioca Flour
Rip-Cord: Bemis Bro Bag Co., St. Louis, Mo., textile bag closure.
Ripi-Flo: Allis-Chalmers, Milwaukee, Wisc., vibrating screen.
Rite-O: Feedwaters Inc., N.Y.C., drain pipe cleaner.
Rite-Way: Gaylord Container Corp., St. Louis, Mo., kraft bags.
Roach Bate: Agkem Inc., Quincy, Ill., bait powder
Roach Cafe: Agkem Inc., Quincy, Ill., household bait package.

ROACH KILLERS 572

Roachkil: Uncle Sam Chem. Co., Inc., N. Y. C., insecticide.
Roachmaster: Michigan Chemical Corp., St. Louis, Mich., insecticides.
ROAD Oil see Oils Road

SURFACING COMPOUNDS 572
Tar see Tar Road

Roalox: U. S. Stoneware Co., N. Y. C., mill jars.

ROASTING MACHINES 690

Robinite: G. S. Robins & Co., St. Louis, Mo., soap comp.
Robinol: G. S. Robins & Co., St. Louis, Mo., wetting agents.
Robotron: Emmett Machine & Mfg. Inc., Akron, O., controls.
Roccal: Sterwin Chems., Inc., N. Y. C., quaternary germicide.
Rochelle Salt see Potassium Sodium Tartrate
Rocking contact: Allis-Chalmers, Milwaukee, Wisc., voltage regulators.
Rockport: Cutler-Magner Co., Duluth, Minn., chemical lime.
Rock-Salt Moss see Moss Irish
Rock Salt see Sodium Chloride
Ro-Con: Whitmoyer Laboratories, Myerstown, Pa., poultry medicinal.
Rodalon: Rhodes Chemical Corp., Plainfield, N. J., disinfectant.
Rod Binders see Binders Rod

ROD & TUBE, EXTRUDED 690

RODENTICIDES 572

Rodin: Geo. B. Robbins Disinfectant Co., Inc., Cambridge, Mass., disinfectant.
Rodine: Amer. Chem. Paint Co., Ambler, Pa., acid inhibitor.
Rodinol see Para-Amidophenol
Rodo: R. T. Vanderbilt Co. Inc., N. Y. C., perfumes.
Rodol: Amer. Cyanamid Co., N. Y. C., fur dyes.
***Rodtite:** Darcoid Co., N.Y.C.
Ro-Flo: Allis-Chalmers, Milwaukee, Wisc., rotary air compressors.
Rohhard: Braden Sutphin Ink Co., Cleveland, O., printing inks.

ROLLS, CHILLING 690

CRUSHING 690

Rol-Man: Manganese Steel Forge Co., Philadelphia, Pa., manganese steel products.
Rol-Top: Kinnear Mfg. Co., Columbus, O., doors.
Roman Vitriol see Copper Sulfate
Romacet: L. L. Rona & Co., Inc., N.Y.C., dyes.
Romachrome: L. L. Rona & Co., Inc., N.Y.C., dyes.
Romacyl: L. L. Rona & Co., Inc., N.Y.C., dyes.
Romalite: Gen'l Dyestuff Corp., N.Y.C., text. reduc. agt.
Romagene: L. L. Rona & Co., Inc., N.Y.C., dyes.
Romagenol: L. L. Rona & Co., Inc., N.Y.C., dyes.
Romanil: L. L. Rona & Co., Inc., N.Y.C., dyes.
Ronathrene: L. L. Rona & Co., Inc., N.Y.C., dyes.
Ronasol: L. L. Rona & Co., Inc., N.Y.C., dyes.
Ronaxol: L. L. Rona & Co., Inc., N.Y.C., dyes.
Ronid: L. L. Rona & Co., Inc., N.Y.C., dyes.
Ronine: L. L. Rona & Co., Inc., N.Y.C., dyes.
Rooco: Roosen Co., Inc., N. Y. C., duplicator ink.
Rooco-glo: Roosen Co., Inc., N. Y. C., gloss process inks.
Rooco-lith: Roosen Co., Inc., N. Y. C., offset inks.
Rooco-set: Roosen Co., Inc., N. Y. C., steamer moisture.
Roof coolerant: Tropical Paint & Oil Co., Cleveland, O., aluminum roof coating.

ROOFING 690

ROOFING COMPOUNDS 573

Roofrite: Flexoid Products Inc., Boston, Mass., liquid asphalt roofing.
Roosenols: Roosen Co., Inc., N. Y. C., drying oils.
Roots see Crude Drugs

ROOTS, HERBS, BARKS, ETC., CRUDE 375

Rosal: Dura Chemical Co., N. Y. C., vegetable wax.
Rosaldehyde: Fritzsche Bros. Inc., N. Y. C., floral base.
Rosanilik: Fritzsche Bros. Inc., N. Y. C., otto of rose sub.
Rosanthol: N. Y. Aromatics Co., N. Y., basic for rose perfumery.
Rose Vitriol see Cobalt Sulfate
Rosin Core Solders see Solders Rosin Core

ROSIN GUM 375
Liquid see Oil, Tall.

LIMED 376
NON-OXIDIZING 376
Oil see Oil Rosin

POWDERED 375

Rosin Sizes see Sizes Rosin
Varnishes see Varnishes Rosin

WOOD 375

Rosinol see Oil Rosin
Rosis: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
Rosolic Acid see Acid Rosolic
Ross' White see Lithopone
Rossaville Alcohols: Com'l Solvents Corp., N.Y.C.
Rotalin: Du Pont Co., Dyestuffs Div., Wilmington, Del., dyes.

ROTAMETERS 691

Rotary: Amer. Dist. Steam Co., N. Tonawanda, N. Y., condensation meters.
Rotenol: Kay-Fries Chems., Inc., N. Y. C., insecticide carrier.

ROTENONE 376

Rotex: Orville Simpson Co., Cincinnati, O., screening machines.
Roto-Clone: Amer. Air Filter Co., Louisville, Ky., dust collector.
Rotodow: Dow Chemical Co., Midland, Mich., sulfur-rotenone dust.
Rotojet Nozzles: Binks Mfg. Co., Chicago, Ill., spray nozzles.
Rotosol: Amer. Mineral Spirits Co., N. Y. C., ink.
Rotrax: Agkem Inc., Quincy, Ill., cattle insecticide.

ROTTEN STONE 376

Ro-Twin: Allis-Chalmers, Milwaukee, Wisc., rotary air compressors.
Roucou see Annatto
Rouge De Mars see Iron Oxide Red
Round Processor: Cherry-Burrell Corp., Chicago, Ill., heaters, coolers & mixers.
"Rowax": Robinson Wagner Co., Inc., N.Y.C., lanolin wax.
Rox: Saginaw Salt Prods. Co., Saginaw, Mich., concrete hardener.
Roxaprene: Interchemical Corp., Newark, N. J., finisher.
Roxite: Strohmeyer & Arpe Co., N. Y. C., montan wax.
Roxtone: Esso Standard Oil Co., N. Y. C., low cold test oils.
Roxtone: Esso Standard Oil Co., N. Y. C., inexpensive oils.
Royal: Anti-Borax Compound Co. Inc., Fort Wayne, Ind., case-hardening compound.
Royal: Hammill & Gillespie Inc., N. Y. C., talc.

Royal: National Soap & Chem. Co., Minneapolis, Minn., oil soap.
Royal Oak: Webb Belting Co., Kansas City, Mo., leather belting.
Royal Purple: Sherwin-Williams Co., Chicago, Ill., purple colors.
Royal X-L: Opalco Lab., McKeesport, Pa., radiator cleaner.
Rubal: The Ruby Chemical Co., Columbus, O., soldering flux.
Rubalt: Alfred Hague & Co., Bklyn., coatings.
Rubanox Reds: Sherwin Williams Co. PCYC Div., N.Y.C., toners.
Rubbagrip: Rubba Inc., N. Y. C., adhesive.
Rubber Clad Line: Colford, Inc., Detroit, Mich, stampings.
RUBBER CHLORINATED 573
Rubber Oil: Berry Asphalt Co., Magnolia, Ark., flux oil.
Rubber Pigments: Collway Colors Inc., Paterson, N. J., dry colors.
Rubber-coat skid-less: Wilbur & Williams Co., Boston, Mass., concrete floor enamel.
RUBBER COMPOUNDING MATERIALS 573
Rubber Glo: C. P. Hall Co., Akron, O., mold lubricant.
Rubberized dampcoat enamel: Wilbur & Williams Co., Boston, Mass., fume & chem. resistant enamel.
Rubberlac: William D. Egleston Co., Cambridge, Mass., rubber varnish.
Rubberol: Genseke Bros., Chgo., rubber compounding ingredient.
RUBBER NATURAL 574
RUBBER RECLAIMED 574
STARCH 574
SUBSTITUTES 574
SYNTHETIC 574
Rubens Brown see Van Dyke Brown
Rub-Erok: Richardson Co., Melrose Park, Ill., rubber prods.
RUBIDIUM (metal) 377
RUBIDIUM SALTS 377
Rubigo see Iron Oxide Red
Rubinol: General Dyestuff Corp., N. Y. C., acid dye.
Rub-R-Kote: Russell Mfg. Co., Middletown, Conn., belting.
Ruby Arsenic see Arsenic Red
Rubyfluid: The Ruby Chemical Co., Columbus, O., soldering flux.
Rucco: The Ruby Chemical Co., Columbus, O., soldering flux.
Rufat: Wilson Marton Div., Phila., Pa., fish fatty acid.
Ruffex: Fisher Scientific Co., Pittsburgh, Pa., dietary roughage material.
Ruf-Koat: General Cement Mfg. Co., Rockford, Ill., wrinkle varnish.
Rufus Titanium Alloy Mfg. Co., Niagara Falls, welding flux.
Rug Cleaners see Cleaners Rug
Cleaning Soaps see Soaps Rug Cleaning
Sizes see Sizes Rug
Sizing Glue see Glue Rug Sizing
Ruggles-Coles: Hardinge Co., Inc., York, Pa., rotary dryers.
RuGlyde: Amer. Grease Stick Co., Muskegon, Mich., rubber lubricant.
Rugtex: Polymer Chemical Co., Cincinnati, O., latex.
Ruigle: Ruehl Paint Co., Cincinnati, O., semi-gloss enamel.
Rul-Spar: Ruehl Paint Co., Cinc'ti, water-proof varnish.
Rultone: Ruehl Paint Co., Cincinnati, O., flat washable paint.
Ruptair: Allis-Chalmers, Milwaukee, Wisc., magnetic air circuit breaker.
Ruptor: Allis-Chalmers, Milwaukee, Wisc., arc depotentiators.
Rusco: Russell Mfg. Co., Middletown, Conn., belting.
Russian Mineral Oil see Oil Mineral
Rust: Gibbs Paint Mfg. Co., Euclid, O., rust inhibitor.
Rustang: Feedwaters Inc., N.Y.C., humidifier water treatment.
Rustarest: Internat'l Rustproof Corp., Cleveland, paint.
Rust-Ban: Esso Standard Oil Co., N. Y. C., rust preventative.
Rustflex: Flexoid Prods., Inc., Boston, Mass., for low pressure boilers.
Rusticon: Phila. Quartz Co., Phila., liquid sodium silicate.
Rustoff: Stull & Co., Phila., Pa., rust remover.
Rustout: Flexoid Prods., Inc., Boston, Mass., for circulating water systems.
Rust-Preev: Neilson Chem. Co., Detroit, Mich., rust preventive.
RUST-PROOFING COMPOUNDS 575
RUST REMOVERS 575
Rust-Solv: Nielco Chemicals Inc., Detroit, Mich., paste solvents.
Rust Veto: E. F. Houghton & Co., Philadelphia, Pa., rust preventive.
Rustyrase: Hachik Bleach Co., Phila., Pa., rust remover.
RUTHENIUM 377
RUTILE 377
RUTIN 377
R V-Luminous: Vogel Luminescence Corp., San Fran., Calif., phosphorescent paint.
Ryertex: Jos. T. Ryerson & Son Co., Inc., Chicago, Ill., plastic bearing material.

S

S: Heatbath Corp., Springfield, Mass., acid inhibitor.
SA: Sharples Chems. Inc., Phila., Pa., rubber accelerator.
SC: Circo Products Co., Cleveland, Ohio, metal degreasers.
S-C: Stewart Chem. Prods., Longmont, Colo., specialties.
SCR: C. P. Hall Co., Akron, O., retarder for rubber.
S.D.: Edgar Brothers Co., Metuchen, N.J., paper coating clay.
S-D-O: Du Pont Co., Rubber Chems Div., Wilmington, Del., syn. drying oils.
S.I.B.T.: Kelite Prods. Inc., Los Angeles, Calif., boiler treatment comp.
S. K. S.: Paisley Prods., inc., Chicago, Ill., flexible Glue.
"SM": Electro Metallurgical Co., N. Y. C., a ferrochrome alloy.
S-M: Martin Dennis Co., Newark, N.J., saddle soap.
S.M.O.: Westvaco Chem. Corp., N. Y. C., agric. grade magnesium oxide.
"SMZ": Electro Metallurgical Co., N. Y. C., silicon alloy.
SN: Advance Solvents & Chems. Corp., N.Y., vinyl resin stabilizer.
SOAC: C. P. Hall Co., Akron, O., activator.
S. O. S.: Braden Sutphin Ink Co., Cleveland, O., printing ink compd.
SPD: Damon Chemical Co., Alliance, O., drain pipe cleaner.
S. P. D.: Holmerden Co., Stratford, Conn., pine disinfectant.
SPDXGH: C. P. Hall Co., Akron, O., accel.
S-Polymers: Enjay Co. Inc., N. Y. C., styrene-isobutylene copolymer.
S. R. 10: Wyandotte Chems. Corp., Wyandotte, Mich., milk stone remover.
S.R.O.: Barrett Div., Allied Chem. & Dye Corp., N.Y.C., rubber compounding material.
"SS": Hercules Powder Co., Wilmington, Del., nitrocellulose.
SSS: Du Pont Co., Explosives Dept., Wilmington, Del., blasting caps.
SS-Unit: Allis-Chalmers, Milwaukee, Wisc., close-coupled motor and centrifugal pump.
SWP: Sherwin-Williams Co., Chicago, Ill., house paint.
S.W.S.: Starr Mfg. & Chem. Co., Lima, O., water softener.
Saccharated Lime see Calcium d-Saccharate
SACCHARINE 377
Saccharozyme: Takamine Lab. Inc., Clifton, N. J., saccharifying enzyme.
Saccharum Lactic see Sugar of Milk
Sacchrol see Saccharine
Saco: Stephens-Adamson Mfg. Co., Aurora, Ill., speed reducer.
Sacon: Stephens-Adamson Mfg. Co., Aurora, Ill., belt conveyor carriers.
Safeguard: General Detroit Corp., Detroit, Mich., safety cans.
Safetee-Stainoff: Midland Color & Chem. Co., N.Y.C., paint remover.
Safety Cans: George W. Diener Mfg. Co., Chicago, Ill., safety appliance.
Safety Circle: Allis-Chalmers, Milwaukee, Wisc., induction motors.
Safflower see Saffron American
SAFFRON AMERICAN 377
SPANISH 377
Saflex: Monsanto Chem. Co., Plastics Div., Springfield, Mass., vinyl butyral adhesive film.
Safranine: General Dyestuff Corp., N.Y.C., basic dye.
Safrella: Fritzsche Bros. Inc., N. Y. C., artificial sassafras sub.
SAFROL 377
Saf-Sol: United Distillers of Amer., N. Y. C., alcohol solvent.
Saf-tee: United Distillers of Amer. Inc., N.Y.C., anti-freeze.
Saf-T-Klean: Berman Chemical Co., Toledo, Ohio, detergent.
Saf-tex: United Distillers of Amer. Inc., N.Y.C., proprietary solvent.
Saf-Tone: United Distillers of America, Inc., N. Y. C., anti-freeze.
Saft-T-San: Huntington Labs. Inc., Huntington, Ind., non-skid floor polish.
Sagger Clay see Clay Sagger
SAGO Dextrin see Dextrin
SAGO FLOUR 378
St. Joe: Jensen & McClelland, Chicago, Ill., zinc oxide.
Sairset: A. P. Green Fire Brick, Mexico, Mo., refractory mortar.
Salabar: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., sal ammoniac.
Salacetin see Acid Acetylsalicylic
Sal Acetosella see Potassium Binoxalate
Salamac: Jos. Turner & Co., Ridgefield, N.J., sal ammonia.
Sal Ammoniac see Ammonium Chloride
Salaterus see Potassium Bicarbonate
Sal Catharticum see Magnesium Sulfate
Sal Chalybis see Ferrous Sulfate
Sal Culinaris see Sodium Chloride
Sal de Doubus see Potassium Sulfate
Sal Enixium see Potassium Bisulfate
Salicylal see Salicylaldehyde
Salicyl Alcohol see Saligenin
SALICIN 378
SALICYLALDEHYDE 378
SALICYLAMIDE 378
Salicylic Aldehyde see Salicylaldehyde
Salicyl Acid see Acid Salicylic
SALIGENIN 378
Salimac see Ammonium Chloride
Salimenthol see Menthyl Salicylate
Salit: Heyden Chem. Corp., N. Y. C., bornyl salicylate.
SALOL 378
Salomanders: Geo. W. Diener Mfg. Co., Chicago, Ill., heating appliance.
Salophen see Phenetsal
Sal Prunella see Potassium Nitrate
Sal Soda see Sodium Carbonate
Sal Vegetal see Potassium Tartrate
Salsbury Turret: Hyster Co., Portland, Ore., transporting trucks.
Salt see Sodium Chloride
Cake see Sodium Sulfate
Evaporated see Sodium Chloride in Chemical Section
Salt of Lamery see Potassium Sulfate
Salt of Sorrel see Potassium Binoxalate
Saltpetre see Potassium Nitrate
SALTS ELECTROPLATING 575
of Tartar see Potassium Carbonate
of Vitriol see Zinc Sulfate
of Wormwood see Potassium Carbonate
Salufer see Sodium Fluosilicate
Salvarsan see Arsphenamine
Salvinol: Florasynth Labs., Inc., Bronx, N. Y., solvent.
Salzburg Vitriol see Copper Sulfate
Samol see Menthyl Salicylate
SAMPLERS, AUTOMATIC 691
San Pheno: Huntington Labs., Inc., Huntington, Ind., disinfectants.
Sandarach see Gum Sandarac.
SAND, BLAST EQUIPMENT 691
FOUNDRY MOLDING 378
GLASS-MAKERS 378
SANDALWOOD 378
Sandocarnit: Sandoz Chem. Wks., N. Y. C., wetting agt.
Sandofix: Sandoz Chem. Wks., Inc., N. Y. C., direct dye.
Sandopan: Sandoz Chem. Wks., Inc., N. Y. C., detergent.
Sandosol: Sandoz Chem. Wks., Inc., N. Y. C., wetting agt.
Sanforol: Standard Chem. Products, Inc., Hoboken, N. J., sanforizing agent.
Sanguis Draconis see Dragon's Blood
Sani Sour: Standard Chemical Wks. Co., Columbus, O., laundry sour.
Sani-dome: U. S. Sanitary Specialties Corp., Chicago, Ill., urinal strainers & deodorant blocks.
"Sanifoam": Milwaukee Chemical Co., Milwaukee, Wis., liquid hand soap.
Saniseal: Master Builders Co., Cleveland, O., floor hardener.
Sani-Sett: Ever-Plastics Corp., N. Y. C., setting compound.
SANITARY CHEMICALS 575
Deodorants see Deodorants Sanitary
Sanitone: Emery Industries, Inc., Cincinnati, O., dry cleaning process.
Sanitor: Viking Pump Co., Cedar Falls, Iowa., sanitary pump.
Sani-White: G. S. Robins & Co., St. Louis, Mo., laundry bleach.
San-O-Fee: Whitmoyer Labs., Inc., Myerstown, Penna., disinfectant.
Santalum Album see Sandalwood
Santa Maria: Chicago Sanitary Prod. Co., Chicago, Ill., soap products.
Santamine: Monsanto Chem. Co., St. Louis, dairy disinf.
Santicisers: Monsanto Chem. Co., St. Louis, plasticizers.
Santobane: Monsanto Chem. Co., St. Louis, insecticides, germicides.
Santobrite: Monsanto Chem. Co., St. Louis, cellulose preserv.
Santocel: Monsanto Chem. Co., St. Louis, silica aerogel.
Santochlor: Monsanto Chem. Co., St. Louis, paradichlorobenzene.
Santocure: Monsanto Chem. Co., Akron, O., cyclohexylamine thio benzthiazole.
Santo Drier: Monsanto Chem. Co., Akron, O., oil drier.
Santoflex B: Monsanto Chem. Co., Akron, O., reaction product of acetone and para amino dyphenyl.

Santoflex BX: Monsanto Chem. Co., Akron, O., diphenyl para-phenylenediamine with Santoflex B.
Santolite: Monsanto Chem. Co., St. Louis, synth. resins.
Santolube: Monsanto Chem. Co., St. Louis, chem. additive for petrol. oils.
Santolube CC: Monsanto Chem. Co., St. Louis, rust inhibitor.
***Santomerse:** Monsanto Chem. Co., St. Louis, wetting, emulsifying, dispersing & penetrating agt.
Santophen: Monsanto Chem. Co., St. Louis, industrial preserv.
Santopour: Monsanto Chem. Co., St. Louis, pour point depressant.
Santo-Resin: Monsanto Chem. Co., St Louis, synth. resin.
Santosel: Monsanto Chem. Co., Boston, Mass., flatting agt.
Santosite: Monsanto Chem. Co., St. Louis, antioxidant.
Santotan: Monsanto Chem. Co., St. Louis, synth. tanstuffs.
Santovar: Monsanto Chem. Co., St. Louis, varn. anti-skinning agt.
Sap Brown: Amer. Lignite Prod. Co., Ione, Calif., dyestuff.
Sapamine FL: Ciba Co., N.Y.C., softening agt. for direct dye baths.
Sapamine KW: Ciba Co., N.Y.C., text. finish.
Sapco: Strohmeyer & Arpe Co., waxes.
Sapinone: Glyco Prod. Co., N.Y.C., emulsifying agt.
Sapolene: W. C. Hardesty Co., Inc., N. Y. C., red oil.
SAPONIN 378
Sap-O-Tex: G. S. Robins & Co., St. Louis, Mo., soap powder.
Sarcide: Sarchester Chemical Co., Jackson Heights, N.Y., fungicide-bactericide.
Sarkolin: Commonwealth Color & Chemical Co., N. Y. C., scouring soap.
Saroline: Carboline Co., St. Louis, Mo., saran paint.
Sartorius #1: Fritzsche Bros. Inc., N. Y. C., ylang ylang.
Sassafrol: Fritzsche Brothers, Inc., N. Y. C., oil of sassafras subs.
Satin: National Soap & Chem. Co., Minneapolis, Minn., soap flakes.
Satin: Reichard-Coulston Inc., N.Y.C., ochre.
Satin Flow: J. E. Bauer Co., Los Angeles, Calif., wall paint.
Satin Gloss: Uncle Sam Chem. Co. Inc., N. Y. C., floor wax.
Satin Spar see Gypsum
Satincast: Cooper Alloy Foundry Co., Hillside, N. J., castings.
Satinize: Amer. Liquid Plastics, Inc., New Haven, Conn. plastic starch.
Sauer All: Spanier Soap & Chem. Co., Santa Monica, Calif., for dry cleaners.
Sauerstoff see **Oxygen**
Sav-a-day: Barton Chem. Co., Chicago, Ill. detergent.
Savanol: General Dyestuff Corp., N.Y.C., calendar paper dyeing assistant.
Save-Lite: Sherwin-Williams Co., Chicago, Ill., interior finishes.
Save-Toil: McCann Chemical Co., Louisville, Ky., wall cleaners.
Sav-it: Cuprinol Division, Darworth Inc., Simsbury, Conn., preservative.
Savonafix: Fritzsche Bros. Inc., N. Y. C., perfume specialty.
SAW DUST 378
Sawatone: Thomson-Porcelite Paint Co., Philadelphia, Pa., wall paint.
Sawtooth: Heil Process Equipt. Corp., Cleveland, O., lead anodes.
Saxin see Saccharin
Saxoline see Petrolatum
Saxony Blue see Smalt
Scale-Off: Kelite Prods. Inc., Los Angeles, Calif., rust remover.
SCALES 691
- **AUTOMATIC** 691
- **BAG FILLING** 691
- **BARREL FILLING** 691
- **BUILT-IN** 691
- **BULK** 691
- **CONTINUOUS WEIGHING** 691
- **CONVEYOR** 691
- **COUNTING** 691
- **HOPPER** 691
- **INTEGRATING** 691
- **LABORATORY** 691
- **LIQUID WEIGHING** 691
- **PACKING** 691
- **PLATFORM** 691
- **PORTABLE** 691
- **PROPORTIONING** 691
- **RECORDING** 691
- **REMOTE INDICATING** 691
- **TOTALIZING** 691

Scalite: The Diversey Corp., Chicago, Ill., scale control.
Scarlet Red see Iron Oxide Red
SCHAEFFER'S SALT 378
Scheele's Green see Copper Arsenite.
Scheelite: see Tungsten Ore.
Scheibel: Otto H. York Co. Inc., East Orange, N. J., extraction towers.
Schenck: Link-Belt Co., Chicago, type elevator buckets
Scherecodull: Scher Bros., Clifton, N. J., textile dullers.
Schercolene: Scher Bros., Clifton, N. J., non-ionic glycol ester.
Schercomine: Scher Bros., Clifton, N. J., cationic softener.
Schercortage: Scher Bros., Clifton, N. J., syn. detergents.
Schercroter: Scher Bros., Clifton, N. J., synthetic detergent.
Schercowax: Scher Bros., Clifton, N. J., sulfonated softeners.
Schlisselite: Metropolitan Refg. Co., Inc., L.I. City, N. Y., corrosion preventive.
School Gluey: Commercial Paste Co., Columbus, O., paste.
Schweinfurth Green see Copper Acetoarsenite
Scigiasco: Scientific Glass Apparatus Co. Inc., Bloomfield, N. J., lab. glassware.
Sco-Co: Southport Paint Co., Inc., Savannah, Ga., metallic paints.
Scotch Laddie: John R. MacGregor Lead Co., Chicago, Ill., litharge.
SCOURING COMPOUNDS 575
- **TEXTILE** 575

Scourite: Wollen Chem. & Sup. Co., Paterson, N. J., industrial soap.
Scout: S. L. Abbot Co., San Fran., Calif., laundry soda.
Scram: Dixie Disinfecting Co., Dallas, Texas, termite spray.
Screen-Etch: McKay Chem. Co. Inc., Bklyn., N. Y., for etching glass.
SCREENS CONVEYOR 691
SCREENS CYLINDRICAL 691
- **FILTER** 691
- **FLAT** 691
- **GYRATORY** 691
- **INTAKE WATER** 691
- **LABORATORY** 691
- **LIQUID** 691
- **PERFORATED METAL** 691
- **REVOLVING** 691
- **SEWAGE** 692
- **TESTING** 692
- **VIBRATING** 692
- **WASHING** 692

SCREENS (cont'd)
- **WEDGE SLOT** 692
- **WIRE** 692

Scriptex: F.J. Heap & Son, Boston, Mass., industrial adhesives.
Scriptex: Scriptex Prods. Co., Inc., Phila., Pa., resins.
SCRUBBERS 692
- **AIR** 692
- **GAS** 693

Seachlor: Seaboard Industries, Paterson, N.J., chlorinated phosphates.
Seafos: Seaboard Industries, Paterson, N. J., phosphate mixtures.
Seal: Phila. Quartz Co., Phila., heavy sodium silicate.
Seal-All: Haas Bros., N. Y. C., jointing compound.
Seal Brand: Mississippi Lime Co., Alton, Ill., lime.
Seal-A-Leak: Missouri Paint & Varnish Co., St. Louis, Mo., roof coating.
Seal-Clad: Allis-Chalmers, Milwaukee, Wisc., motors.
Seald light: Coddington Mfg. Co., Milwaukee, Wisc., paste paint.
Sealant "P": Multi-Mold Products, N. Y. C., phenolic coating.
Sealastic: Benjamin Foster Co., Phila., Pa., coatings for insulation.
Sealed-Disc: Alsop Engr. Corp., Millicale, Conn., filters.
SEALERS
- **CAN** 575
- **LACQUER** 575
- **WOOD** 575

Sealet: The Standard Chemical Co., Inc., Milwaukee, Wisc., embalming adhesive.
Sealfas: Benjamin Foster Co., Phila., Pa., adhesive cements.
Sealing Wax see **Wax Sealing**
Sealit: Sullivan Co., Memphis, Tenn., transparent sealer.
Sealmaster: Stephens-Adamson Mfg. Co., Aurora, Ill., belt conveyor carriers.
Sealol: Esso Standard Oil Co., N. Y. C., white mineral oils.
Sealon: Maurice A. Knight, Akron, O., tank coatings.
Sealon: Sullivan Co., Memphis, Tenn., paints & dyes.
Seal-o-san: Huntington Labs. Inc., Huntington, Ind., gym floor seal.
SEALS FOR STEEL DRUMS 692
- **MECHANICAL** 692

Seamseal: L. W. Ferdinand & Co., Inc., Newton Lower Falls, Mass., seam compound.
Sea Salt: See Sodium Chloride.
Sea Suds: Gamlen Chem. Co., San Fran., Calif., soap powder.
Sealtex: Nukem Products Corp., Buffalo, N. Y., asphaltic coating.
Sealtite: Chapman Chemical Co., Memphis, Tenn., end coating.
Seapens: Seaboard Industries, Paterson, N. J., marking tube.
Seasyn: Seaboard Industries, Paterson, N.J., syn. detergents.
Seaterge: Seaboard Industries, Paterson, N.J., detergents.
Seawax: Seaboard Industries, Paterson, N.J., textiles waxes.
Sebacol: Wallerstein Co., Inc., N.Y.C., unhairing agent.
Secal: Emusol Corp., Chicago, Ill., emulsifier.
Secaline see Trimethylamine
Secondary Ammonium Phosphate see Ammonium Phosphate Di
Calcium Phosphate see Calcium Phosphate Dibasic
Normal Amyl Alcohol see Methyl Propyl Carbinol
Security: National Mfg. Corp., Tonawanda, N. Y., asphalt roofing prods.
Seed Disinfectants see Disinfectants Seed
Seed Saver: Parsons Chemical Wks., Grand Ledge, Mich., grain disinfectant.
SEIDLITZ MIXTURE 576
Seignette Salt see Potassium Sodium Tartrate
Seiliana: Fritzsche Bros. Inc., N. Y. C., extractions.
Seismogel: Du Pont Co., Explosives Dept., Wilmington, Del., gelatin.
Selveloader: Stephens-Adamson Mfg. Co., Aurora, Ill., for loading.
Select: National Soap & Chem. Co., Minneapolis, Minn., oil soap.
Selectol: Eastman Kodak Co., Rochester, N. Y., developer.
Selectro: Productive Equipment Corp., Chicago, Ill., vibrating screen.
Selectrol: Automatic Control Co., St. Paul, Minn.
Selectrol: Exact Weight Scale Co., Columbus, O., automatic check-weigher.
Selenac: R. T. Vanderbilt Co., N.Y.C., vulcanizing agts.
Selenite see Gypsum
SELENIUM (the Metal) 378
- **DIETHYL DITHIOCARBAMATE** 379
- **DIMETHYL DITHIOCARBAMATE** 379
- **DIOXIDE** 379
- **SALTS** 379

Selenous Acid Anhydride see Selenium Dioxide
Selenous Anhydride see Selenium Dioxide
Selfetron: Radio Receitor Co., Inc., N. Y. C., selenium rectifiers.
Sellogen: Jacques Wolf & Co., Passaic, N.J., sodium alkyl naphthalene sulfonate.
Selocide: McLaughlin Gormley King Co., Minneapolis, Minn., miticide.
Selpatron: Chemo Puro Mfg. Corp., L. I. City, N. Y., meat curing salt.
Semco: Wybbine Engr. & Mfg. Co., Watertown, N.Y., acid resisting linings.
Semesan: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., fungicide.
SEMI CARBAZIDE HYDROCHLORIDE 379
Semi-Lustre: Sherwin-Williams Co., Chicago, Ill., enamel.
Senator: McCann Chemical Co., Louisville, Ky., soap chips.
Senco: George Senn, Inc., Phila., Pa., turpentines.
Seneca Flakes: Wyandotte Chems. Corp., Wyandotte, Mich., bottle washing compound.
Senelith: Senefelder Co., Inc., N. Y. C., printing & litho inks.
Sensatherm: Mercoid Corp., Chicago, Ill., room thermostat.
Senn-Sation: George Senn, Inc., Phila., Pa., paint and varnish remover.
Sensolve: George Senn, Inc., Phila., Pa., aromatic solvent blends.
Sentinel: Cliffs Dow Chemical Co., Marquette, Mich., anti-freeze.
Sentinel: Lunkenheimer Co., Cincinnati, O., oil cup.
SEPARATORS, AIR 692
- **CENTRIFUGAL** 692
- **DUST** 692
- **ENTRAINMENT** 692
- **LIQUID** 692
- **LIQUID GAS** 692
- **MAGNETIC** 692
- **OIL AND GREASE** 692
- **STEAM** 692

Septigard: Thompson-Hayward Chem. Co., Kansas City, Mo., quaternary ammonia.
SEQUESTERING AGENTS 576
Sequestrene: Alrose Chem. Co., Cranston, Prov., R. I., polyaminocarboxylic acid sequestrants.

Seravon: Amalgamated Chemical Corp., Philadelphia, Pa., textile soaps.
Serene: Sherwin-Williams Co., Chicago, Ill., green colors.
Sericose: General Dyestuff Corp., N.Y.C., binder for printing pigments.
Sericosol: General Dyestuff Corp., N.Y.C., solvent.
Series 78: Warren Webster & Co., Camden, N. J., thermostatic steam traps.
SERINE, NATURAL 379
Serizyme: Wallerstein Co. Inc., N. Y. C., film stripping agent.
Serpentine see Asbestos
Servacide: Innis, Speiden & Co., N.Y.C.,, insecticide.
Service Cement: General Cement Mfg. Co., Rockford, Ill., adhesive.
Service: Link-Belt Co., Chicago, brand conveyor belts.
Servitex: Cincinnati Industries Inc., Cincinnati, O.
Servone: Dumo Chemical Co., Inc., Poughkeepsie, N.Y., anti-freeze.
Sesquicupric Carbonate see Copper Carbonate Blue
Sesqui-Sec: Wyandotte Chems. Corp., Wyandotte, Mich., sodium sesqui carbonate.
Sesquiterpene Alcohol see Cedrol
Setamol: Gen'l Dyestuff Corp., N.Y.C., wool and silk dyeing ass't
Setole: Sun Chemical Corp., L. I. C., N. Y., finishing agent.
Setole: Warwick Chem. Co. Div., Warwick, R. I., water soluble resin.
Setsit-5: R. T. Vanderbilt Co. Inc., N. Y. C., accelerator rubber.
Setskold: Laclede-Christy Co., St. Louis, Mo., cement, high temp.
SEWER-PIPE JOINT COMPOUNDS 576
Seyco: Seydel-Woolley & Co., Atlanta, textile chemicals.
Seycol: Seydel-Woolley & Co., Atlanta, Ga., soluble oils.
Seycopen: Seydel-Woolley & Co., Atlanta, Ga., wetting agents.
Seycotergs: Seydel-Woolley & Co., Atlanta, Ga., detergents.
Seycovol: Seydel-Wooley & Co., Atlanta, Ga., softeners.
Seydel: H. R. Larat Co., San Fran., Calif., sodium benzoate.
Shadograph: Exact Weight Scale Co., Columbus, O., scales.
Shamparomes: Naugatuck Aromatics, N. Y. C., for shampoos.
Shampoo Base M: E. F. Drew & Co., Inc., N. Y. C., condensates.
Shamrock: Sherwin Williams Co., PCYC Div., N.Y.C., greens.
Shark Oil see Oil Shark Liver
Sharsol: Sharples Chemicals Inc., Phila., Pa., solubilizers for 2,4-D acid.
Sheerset: Amer. Cyanamid Co., N. Y. C., resin shrinkage control preparation.
Sheffaloy: Sheffield Tube Corp., New London Conn. tube alloy.
Sheffield: W. A. Wood Co., Boston, Mass., quenching oil.
Sheico: Albert K. Sheidon Co., Cambridge, Mass., paints, stains, varnishes.
SHELLAC 379
BLEACHED 379
Solvents, see Solvents Shellac
SUBSTITUTES 576
Varnishes see Varnishes Shellac
Shellacol: Com'l Solvents Corp., N.Y.C., proprietary solvent (alcohol-type).
Sherdye: Sherwin-Williams Co., Chicago, Ill., emulsions.
Sherol: Sherwood Refining Co., Inc., Englewood, N. J., shampoo.
Sheroletum: Sherwood Refg. Co. Inc., Englewood, N. J. petrolatum.
Sheroline: Sherwood Refg. Co. Inc., Englewood, N. J., cream bases.
Sheroxine: Sherwood Refg. Co., Inc., Englewood, N.J., ceresine wax.
Sherosol: Sherwood Refg. Co. Inc., Englewood, N. J., sol. oil bases.
Sherosope: Sherwood Refg. Co. Inc., Englewood, N. J., sodium petroleum sulfonates.
Sherowax: Sherwood Refg. Co. Inc., Englewood, N. J., petroleum waxes.
Sheryco: Sherwin Williams Co., PCYC Div., N.Y.C., resin-emulsion.
Shervac: Sherman Laboratories, Detroit, Mich., oral vaccine.
Shield: Mitchell-Rand Mfg. Co., N. Y. C., wax screen printing.
SHIELDS, FACE 693
FACE, WELDING 693
Shiloh: Midland Labs., Dubuque, Iowa, powder-porcelain cleaner.
Shine Rite: Empire Chemical Prod. Co., Newark, N. J., floor soap.
Shine-Brite: Chiton Chem. Co., N.Y.C., wood cleaner.
Shinglecoat: Barrett Co., N.Y.C., wood stain.
Shinglene: Heyden Chem. Corp., N.Y.C., shingle stain.
Ship-Cote: Ellis Paint Co., Long Beach, Calif., marine finishes.
Shipoleum: Du Pont Co., Finishes Div., Wilmington, Del., varnish.
Shirlan: Du Pont Co., Organic Chem. Dept., Wilmington, text. fungicides.
Shirlan: Du Pont Co., Wilmington, text. fungicides.
SHOCK ABSORBER FLUIDS 576
SHOE DRESSINGS (Industrial) 576
Makers' Cement see Cements Rubber also Cement Belting
Shoo-bug: Planetary Chem. Co., Creve Coeur, Mo., insectifuge.
Shook: Planetary Chem. Co., Creve Coeur, Mo., household insecticide.
Shower-Proof: Calbar Paint & Varnish Co., Phila., Pa., roof paint.
SHREDDERS 693
Shumac see Sumac
Shur-Katch: Elkay Products Co., N.Y.C., rodinticide.
Shuwax: Cornelius Prods. Co., N. Y. C., carnauba replacement.
Shylac: Monsanto Chem. Co., Boston, Mass., fabric finish.
Shynebryte: U. S. Sanitary Specialties Corp., Chicago, Ill., metal polish.
SIENNA 380
Sierra: Arrowhead Lime & Chemical Co., San Francisco, Calif. lime.
Sierra: Dura Chemical Co., N. Y. C., montan wax.
SIEVES, LABORATORY 693
SIFTERS GYRATORY 693
INDUSTRIAL 693
LABORATORY 693
SIGNS, DANGER & WARNING 693
Sigunit: Sika Chemical Corp., Passaic, N.J., waterproofing cpd.
Sika: Sika Chemical Corp., Passaic, N.J., waterproofing cpd.
Silatex: Tamms Silica Co., Chicago, Ill., texture paint.
"Silcas": Electro Metallurgical Co., N. Y. C., silicon alloy.
Silene: Pittsburgh Plate Glass Co., Columbia Chem. Div., Pittsburgh, Pa., calcium silicate.
Silene EF: Harwick Standard Chemical Co. ,Akron, O., precip. calcium silicate.
Silene EF: Pittsburgh Plate Glass Co., Pittsburgh, Pa., precip. calcium silicate.
Sil-Fos: Handy & Harman, N. Y. C., brazing alloy.
Silfrax: Carborundum Co., Perth Amboy, N. J.
SILICA 380
AMORPHOUS 380
GEL 380
Silicate of Soda see Sodium Silicate
Silicic Acid Anhydride see Silica
SILICON 380
CARBIDE 380
Dioxide see Silica
POWDER 380
TETRACHLORIDE 380
SILICONES 380
Silicum see Silicon.
Silimite: Allis-Chalmers, Milwaukee, Wisc., boiler feedwater treatment.
Silk Boil-Off Compounds see Boil-Off Compounds Silk
Degummers see Degummers Silk
Finishing Compounds see Finishing Compounds Silk
Finishing Glues see Glue Silk Finishing
Sizes see Sizes Silk and Rayon Warp
Silklubric: E. F. Houghton & Co., Phila., Pa., degumming oil.
Silk-O-Ray: Onyx Oil & Chem. Co., Jersey City, N.J., scrooping agents.
Silitex Gum: Onyx Oil & Chem. Co., Jersey City, N. J., printing gum.
Sil-Trade: Ampco Metal Inc., Milwaukee, Wis., electrodes.
Silvacon: Harwick Standard Chemical Co., Akron, O., bark fractions.
Silvaloy: The Linde Air Prods. Co., N. Y. C., welding and soldering flux.
SILVER (the Metal) 381
(Powder) see Metals Powdered
BROMIDE 381
CARBONATE 381
CHLORIDE 381
COLLOIDAL 381
CYANIDE 381
IODIDE 381
NITRATE 382
OXIDE 382
PERCHLORATE 382
PHOSPHATE 382
SULFIDE 383
Solders see Solders Precious Metals
Silver Crystal Brand: P. R. Dreyer Inc., N.Y.C., mint oils.
Silver King: J. S. McCormick Co., Pittsburgh, Pa., foundry facing.
Silver Mist: National Chemical Co., Los Angeles, Calif., mirror spraying sols.
Silver Top: J. E. Bauer Co., Los Angeles, Calif., aluminum paints.
Silvertone: Rohm & Haas Co., Phila., Pa., for leather finishing.
Simaco: Sinterbas Mfg. Co., Wyoming, Pa.
Simplex: H. Kohnstamm & Co., Inc., N. Y. C., soap.
Simplex: Sprout Waldron & Co., Inc., Muncy, Pa., pellet mill.
Simplex: Stephens-Adamson Mfg. Co., Aurora, Ill., belt conveyor carriers.
Simplex: Viking Pump Co., Cedar Falls, Iowa, tank gauge.
Simpson: National Engineering Co., Chicago, Ill., intensive mixers.
Sing: Hood Chem. Co. Inc., Philadelphia, Pa., paint cleaner.
Singlediscs: Multi Metal Wire Cloth Co., Inc., N.Y.C., filter discs.
SINKS, ACID PROOF 693
SINKS, LABORATORY 693
Sinterbas: Sinterbas Mfg. Co., Wyoming, Pa., cements.
Sil-O-Lite: Mallinckrodt Chem. Wks., St. Louis, Mo., silicic acid.
SIPHONS, ACID 693
GLASS 693
STONEWARE 693
Sitol: Du Pont Co., Fine Chems Div., Wilmington, Del., processing agt.
Size Oils see Oils Size
SIZE, POLYMETHACRYLIC ACID 576
Size-It: Alabastine Paint Products, Chicago, Ill., wall size.
SIZES, PAPER 576
PRINTING INK 576
RAYON 577
ROSIN 577
RUG AND CARPET 577
SILK AND RAYON WARP 577
TEXTILE 577
WALL 577
WARP COTTON 577
WAX 577
Six-In: Greenville Chem. Co., Greenville, S. C., hat sizing.
Sizing Glues see Glue Sizing
Tallow see Tallow Sizing
SIZINGS (Paper & Textile) 577
HAT 578
Skellysolve-C: Skelly Oil Co., Kansas City, Mo., commercial heptane.
Skid-Pruf: Nielco Chemicals Inc., Detroit, Mich., floor wax.
SKIDS 693
Skinner Roasting Furnaces: Colorado Iron Wks. Co., Denver, Colo.
SKIN PROTECTING COMPOUNDS 578
Skip-Lift: Beaumont Birch Co., Phila., Pa., ash handling system.
Skipper: National Soap & Chem. Co., Minneapolis, Minn., soap powders.
Skortex: Wyandotte Chems. Corp., Wyandotte, Mich., laundry detergent.
Skulite: Schuylkill Chemical Co., Philadelphia, Pa., ammonium sulfate.
Skullgard: Mine Safety Appliances Co., Pittsburgh, Pa., safety hat.
Slacked Lime see Lime Hydrated Chemical
Slagtite: Laclede-Christy Co., St. Louis, Mo., cement refractory.
SLASHER COMPOUNDS 578
SLATE Black see Mineral Black
FLOUR 383
Slick'n Quick: Saginaw Salt Prods. Co., Saginaw, Mich., wall paper remover.
Slick-Seal: Frederic B. Stevens Inc., Detroit, Mich., foundry facing comp.
Slingmaster: The Cambridge Wire Cloth Co., Cambridge, Md., metal slings.
Slip-Easy: Riverside Chem., Co., Inc., No. Tonawanda, N. Y., metal polish.
Slipjoint G-K: Atlas Mineral Prods. Co., Mertztown, Pa., sewer joint comp.
Slip-Knot: Webb Belting Co., Kansas City, Mo., belt dressing.
Slipkote: Esso Standard Oil Co., N. Y. C., smooth lubricant.
Slipstop: Scher Bros., Clifton, N. J., slip-proof finish.
Sludgout: Metropolitan Refg. Co., Inc., L.I. City, N.Y., oil treatment.
SLUSHING COMPOUNDS 578
Greases see Greases Slushing
Oils see Oils Slushing
Slush-Mix: Sullivan Co., Memphis, Tenn., drilling muds.
SMALT 383
Smoothtex: Multi Metal Wire Cloth Co., Inc., N.Y.C., filter cloth.
Smoothwall: Coddington Mfg. Co., Milwaukee, Wisc., spackling powder.
Smuybath: Special Chemicals Corp., N. Y. C., oxidising salts.
Snail-foil: An-fo Mfg. Co., Oakland, Calif., snail exterminator.
Snap-Dri: Capitol Printing Ink Co., Inc., Washington, D.C., prtg. & litho inks.

Snodette: Werner G. Smith Co., Cleveland, O., hydrogenated fatty acids.
Sno-Man: Neatsfoot Oil Refineries Corp., Phila., neatsfoot oils.
Snow White Filler: Berlow & Schlosser Co., Providence, R. I., filler.
Snowdrift: Southern Cotton Oil Co., N. Y. C., fats hydrogenated.
Snowflake: H. N. Richards Co., Trenton, N.J., calcium carbonate.
Snowflake: Uncle Sam Chem. Co. Inc., N. Y. C., moth spray.
Snowflake: Thompson-Weinman & Co., N. Y. C., extender.
Snowflake Brand: E. A. Bromund Co., N.Y.C., white beeswax.
Sno-White: Advance Paint Co., Indianapolis, Ind., shop paint.
Sno-White: Frederic B. Stevens Inc., Detroit, Mich., foundry facing.
Snow White: Monsanto Chem. Co., St. Louis, phosphate.
Snow White: Southern Mica Co., Johnson City, Tenn., mica.
Snowite: E. J. Verde & Co., N.Y.C., tallow.
Sea: Niacet Chemicals Div., Niagara Falls, N. Y., sucrose octa acetate.

SOAP 578
BARK 383
BASE 578
BASE LIQUID 578
BUILDERS 383
FLAKES 578
GREEN 578
LIQUID 578
OIL 578
POWDERS 578
ROSIN 579
TEXTILE 579
Wrapper Inks see Inks Soap Wrapper
Soaperior: U. S. Sanitary Specialties Corp., Chicago, Ill., liquid soap & dispensers.
Soapless Soaps see Sulfated Higher Alcohols; also Wetting Agents
Soapols: Naugatuck Aromatics Div., U. S. Rubber Co., N.Y.C., soaps.

SOAPS ANIMAL 579
ANTISEPTIC 579
BENZINE 579
BURNISHING 579
CASTILE 579
DRAWING 579
DRY-CLEANING 579
FIG 579
FISH-OIL 579
INSECTICIDE 579
LAUNDRY 579
LEATHER 580
MECHANICS (Hand) 580
METALLIC 383, 580
PASTE 580
RUG CLEANING 580
SILK 580
SPOTTING 580
TEXTILE 580
WIRE DRAWING 581
WOOL 581

Soapstone see Talc
Sobenate: Seydel Chem. Co., Jersey City, modified sodium benzoate.
Sobo: Slomons Labs., Inc., L. I. City, N. Y., plastic cement.
Socolite: Kelite Prods. Inc., Los Angeles, Calif., scale remover.
Soctex: Latex Distrs., Inc., Baltimore, Md., latex.
Sod Oil see Degras
SODA Alum see Alum Sodium
ASH 383
CAUSTIC 385
Soda Briquettes: Pittsburgh Plate Glass Co., Pittsburgh, Pa., iron desulpherizer.
Soda Nitre Saltter see Sodium Nitrate

SODAS LAUNDRY 581
MODIFIED 581
TANNERS' 581
TEXTILE 581
Sodax: Perolin Co., N.Y.C., water softener.
Sodite: Calif. Spray-Chem. Corp., Richmond, Calif., orchard insecticide.

SODIUM ACETATE 388
Acid Acetate see Sodium Diacetate
Acid Carbonate see Sodium Bicarbonate
Acid Chromate see Sodium Bichromate
Acid Fluoride see Sodium Bifluoride
Acid Phosphate see Sodium Phosphate, Mono-Sodium
ACID PYRO PHOSPHATE 389
Acid Sulfate see Sodium Bisulfate
Acid Sulfite see Sodium Bisulfite
ALGINATE see also Algin 389
ALKYL ARYLSULFONATE 389
ALKYL SULFATES 389
ALUMINATE 389
Aluminum Fluoride see Cryalite, Synthetic
ALUMINUM SILICOFLUORIDE 389
ALUMINUM SULFATE see also Alum Sodium 389
AMIDE 389
p-AMINOBENZOATE 389
p-AMINOSALICYLATE 389
Ammonium Hydrogen Phosphate see Sodium Ammonium Phosphate
AMMONIUM PHOSPHATE 390
Anilinesulfonate see Sodium Sulfanilate
ANTIMONATE 390
ARSENATE 390
ARSENITE 390
Aurodichloride see Gold Sodium Chloride
AZIDE 390
BARBITAL 390
BENZENE SULFONATE 390
Benzenesulfonechloramide see Chloramine B
BENZOATE 390
BENZYL SUCCINATE 391
Beta Naphthol 6, 8 Disulfonic Acid see G Salt
BICARBONATE 391
BICHROMATE 392
BIFLUORIDE 394
Binoxide see Sodium Peroxide
BISMUTH TARTRATE 394
BISMUTHATE 394
Biphosphate see Sodium Phosphate Monosodium

SODIUM (cont'd)
BISULFATE 394
BISULFITE 394
m-BISULFITE 395
BORATE 395
m-BORATE 396
BOROFORMATE 396
BOROFLUORIDE see also Sodium Fluoborate 396
BOROHYDRIDE 396
BROMATE 396
BROMIDE 396
CACODYLATE 396
CAMPHOR SULFONATE 396
Carbolate see Sodium Phenate
Carbonate, Anhydrous see Soda Ash
CARBONATE 396
CARBONATE MONOHYDRATED 396
CARBONATE PEROXIDE 396
Carboxymethyl Cellulose see Carboxymethyl Cellulose
CASEINATE 396
Cellulose Glycolate see Carboxymethyl Cellulose
CHLORATE 397
CHLORIDE 397
CHLORITE 397
Chlorohypochlorite see Bleaching Powder
6-Chlor Orthoxenate see 6-Chlor 2-Phenyl Phenate
2-Chlor Paraxenate see 2-Chlor 4-Phenyl Phenate
CHROMATE 398
CITRATE 398
CYANATE 398
CYANIDE 398
p-CYMENE SULFONATE 399
DIACETATE 399
3,4-DICHLOROPHENOXYACETATE 399
Diiodoparaphenolsulfonate
p-Dimethyl-Amino-azo-Benzine-Sulfonate see Methyl Orange
Dimethyl Arsenate see Sodium Cacodylate
Dichromate see Sodium Bichromate
Dioxide see Sodium Peroxide
DIPHENYLAMINE SULFONATE 399
DIPHENYLBENZIDINE SULFONATE 399
5-Ethyl-5-(1-Methyl Butyl) Barbiturate see Pentobarbitol Sodium
Ethyl (1-Methyl Butyl) Malonylurea see Pentobarbitol Sodium
Ethyl Oxalacetate see Ethyl Sodium Oxalacetate
FERRIC PYROPHOSPHATE 399
FERRICYANIDE 399
FERROCYANIDE 399
FLUOBORATE 399
FLUORIDE 399
FLUOROACETATE 399
FORMATE 399
GLUCONATE 399
GLUTAMATE MONO 400
GLYCEROPHOSPHATE 400
GOLD CYANIDE 400
Hexametaphosphate see Sodium Metaphosphate
Hydrate see Soda, Caustic
HYDROSULFIDE see also Sodium Sulfhydrate 401
HYDROSULFITE 401
Hydroxide see Soda, Caustic
HYPOCHLORITE 401
HYPOPHOSPHITE 401
HYPOSULFATE 401
HYPOSULFITE 401
IODATE 402
IODIDE 402
IRON PYROPHOSPHATE 402
LACTATE 402
LAURYL SULFATE see also Alcohols Higher Fatty 402
LIGNO SULFONATE, NEUTRAL 402
Meta-Arsenite see Sodium Arsenite
Metabisulfide see Sodium Bisulfite
Metaphosphate see Sodium Hexametaphosphate
METAL 402
METANILATE 402
METHYLARSENATE 402
METHYLATE 402
MOLYBDATE 402
MONOXIDE 402
NAPHTHENATE 402
NAPHTHIONATE 402
2-NAPHTHOL-3,6-DISULFONATE 402
Naphthylamine see Sodium Naphthionate
NITRATE 402
NITRITE 403
OLEATE 403
Orthoxenate see Sodium Orthophenyl Phenate
OXALATE 403
Para-Aminobenzene Sulfonate see Sodium Sulfanilate
PENTACHLOROPHENATE 403
PENTOBARBITAL 403
PERBORATE 403
PERBORATE MONOHYDRATE 404
PERCHLORATE 404
m-PERIODATE 404
p-PERIODATE 404
PERMANGANATE 404
PEROXIDE 404
PERSULFATE 404
PHENATE 404
PHENOL SULFONATE 404
Phenol Sulfonate see Sodium Sulfocarbolate
PHENYL ACETATE 404
Phenylcinchoniate see Sodium Cinchophenate
o-PHENYLPHENATE 404
2-Phenyl Phenate see Sodium Orthoxenate
Phosphate Dibasic see Sodium Phosphate
PHOSPHATE, Di-Sodium 405
m-PHOSPHATE 404
PHOSPHATE HEMIBASIC 405
Phosphate Meta see Sodium Metaphosphate
Phosphate Monobasic see Sodium Phosphate Monosodium
PHOSPHATE Mono-Sodium 405
PHOSPHATE TETRA 405
Phosphate Tribasic see Sodium Phosphate Trisodium

SODIUM (cont'd)

PHOSPHATE Tri-Sodium 406
PHOSPHOTUNGSTATE 407
PICRAMATE 407
Polyphos: Blockson Chemical Co., Joliet, Ill., sodium phosphate.
POLYSULFIDE 407
PROPIONATE 407
Pyrophosphate see Sodium Acid Pyro Phosphate
PYROPHOSPHATE PEROXIDE 407
PYROPHOSPHATE TETRA 407
RESINATE 407
Rhodanate see Sodium Sulfocyanide
Rhodanide see Sodium Sulfocyanide
RICINOLEATE 407
SALICYLATE 407
SELENITE 408
SESQUICARBONATE 408
SESQUISILICATE 408
SILICATE 409
m-SILICATE 410
o-SILICATE 410
SILICOFLUORIDE 410
STANNATE 410
STEARATE 410
Subsulfite see Sodium Hyposulfite
SULFADIAZINE 411
2-Sulfanilamidopyrimidine see Sulfadiazine
SULFANILATE 412
SULFAPYRIDINE 411
SULFATE 411
SULFATE CRYSTALS 411
SULFATHIAZOLE 412
Sulfhydrate see Sodium Hydrosulfide
SULFIDE 412
SULFITE 413
Sulfocarbolate see Sodium Phenol Sulfonate
Sulfocyanate see Sodium Sulfocyanide
SULFOCYANIDE 414
Sulfuret see Sodium Sulfide
Superoxide see Sodium Peroxide
Tetraborate see Sodium Borate
2-4-5-6-TETRACHLOROPHENATE 414
TETRA IODO-PHENOLPHTHALEIN 414
TETRASULFIDE 414
Thiocyanate see Sodium Sulfocyanide
THIOGLYCOLATE 414
Thiosulfate see Sodium Hyposulfite
TITANATE 414
TOLUENESULFONATE 414
2, 4, 5-TRICHLOROPHENATE 414
TRIFLUOROACETATE 414
TRIPOLYPHOSPHATE 414
TUNGSTATE 415
UNDECYLENATE 415
URANATE 415
o-VANADATE 415
XYLENESULFONATE 416
ZINCATE 416
ZIRCONYL SULFATE 416
Sodyeco: South. Dyestuff Corp., Charlotte, N.Y., textile chemicals.
Sodyesul: Southern Dyestuff Corp., Charlotte, N.C., sulphur dyestuffs.
So-Dye-Vat: Southern Dyestuff Corp., Charlotte, N. C., vat dyestuff.
Sof-T: Marlyn Chem. Co., Calumet City, Ill., text. softener.
Soft Soap see Soap Green
Softax: Reichard-Coulston Inc., N.Y.C., iron oxide pigments.
SOFTENERS see individual headings as Sodium Phosphate Tri; Sodium Aluminate etc.
SOFTENERS, LEATHER 581
NITROCELLULOSE 581
PAPER 581
RUBBER 581
STENCIL 582
TEXTILE 582
TEXTILE CREAM 583
WATER 583, 693
Softex: Lamex Chem. Corp., N. Y. C., surface active agt.
Softex: Standard Chem. Products, Inc., Hoboken, N. J., textile softener.
Softoil: Scher Bros., Clifton, N.J., sulfonated oil finish.
Softol: Stand. Chem. Prods., Inc., Hoboken, N.J., text. oil.
Softone: Mallinckrodt Chem. Works, St. Louis, Mo., developer.
Soilax "B": Economics Laboratory, Inc., Saint Paul, Minn., detergent.
Soilfume 60-40: Westvaco Chem. Corp., N. Y. C., soil fumigant.
Soil-Solv: Midland Labs., Dubuque, Iowa, floor scrub soap.
Soiltone: Warren-Douglas Chem. Co. Inc., Omaha, Neb., fertilizer.
Sol Lustre: E. F. Houghton & Co., Phila., Pa., cotton softener.
Solar: General Dyestuff Corp., N.Y.C., tungstate dye.
Solarisse: Carlton Chem. Co., Inc., N. Y. C., laundry bleach.
Solarite: The Reardon Co., St. Louis, Mo., cold water kalsomine.
Solarite: Solar Compounds Corp., Linden, N.J., flame retardant.
SOLDERING FLUIDS 584
SOLDERS 693
ACID CORE 584
ALUMINUM 584
BRASS 584
BRAZING 584
PASTE 584
PASTE CORE 584
PRECIOUS METALS 584
ROSIN CORE 584
SILVER 584
Solbumen: Eaton Chemical & Dyestuff Co., Detroit, Mich., de-sizing.
Solcastol: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., soluble castor oils.
Solcornol: Amer. Cyanamid Co., N. Y. C., sol. corn oil.
Soldura: Solar Compounds Corp., Linden, N.J., specialty paints.
Soletin see Acid Acetylsalicylic
Solex: Pittsburgh Plate Glass Co., Pittsburgh, Pa., plate glass.
Solfast: Sherwin-Williams Co., Chicago, Ill., green colors.
Solflo: Du Pont Co., Finishes Div., Wilmington, Del., retarder.
Solformol: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., soluble corn oils.
Solid Green O Paste see Dinitroresorcinol
Solidina: Standard Chem. Products, Inc., Hoboken, N. J., dye fixer.
Solidex: Pratt & Lambert, Inc., Buffalo, N. Y., wall paint.
Solidogen: Gen'l Dyestuff Corp., N.Y.C., fixing agt. for direct dyes.
Soligens: Advance Solvents & Chem. Corp., N.Y.C., paint drier.
Solitol Base N-60: Oil States Petroleum Co., Inc., N. Y. C., sulfonates.
Sol Lustres: E. F. Houghton & Co., Phila., Pa., textile softeners.
So-Long Fly: An-Fo Manufacturing Co., Oakland, Calif., insecticide.
Solox: J. C. Drouillard Co., Cleveland, O., denatured alcohol.
Solox: U.S. Industrial Chems. Inc., N. Y. C.
Solozone: Du Pont Co., Electro Chems. Dept., Wilmington.
Solprotex: Firmenich & Co., N. Y. C., sunscreen.
Solres: Newport Industries, Inc., N. Y. C., soluble rosin.
Soltene: Crosby Chems. Inc., De Ridder, La., terpene solvent.
Soltex: Riverside Mfg. Co., St. Louis, Mo., detergent.
Soluble Glass see Sodium Silicate
Gun Cotton see Pyroxylin Solutions
Tartar see Potassium Tartrate
Wax see Waxes Soluble
Soluble Wax No. 1: E. F. Houghton & Co., Phila., text. wax
Solu Bridge: Industrial Instruments, Inc., Jersey City, N.J., conductivity meter.
SOLUBILIZERS 584
Solu-Check: Industrial Instruments Inc., Jersey City, N. J., conductivity meters.
SOLUTIONS, ELECTRO POLISHING 584
SOLUTIONS, SPECIAL VOLUMETRIC 416
Solux: Du Pont Co., Rubber Chems. Div., Wilmington, Del., rubber antioxidant.
Solva: Shawinigan Prods. Corp., N. Y. C., polyvinyl alcohol.
Solvacet: Jacques Wolf & Co., N. Y. C., solvent for acetate dyestuffs.
Solvawax: General Wax Refining Co., N.Y.C., carnauba sub.
Solvax: Research Products Co., Ltd., Huntington Park, Calif., solvent.
Solv-Clean: Solvit Chem. Co., Inc., Madison, Wis., detergent.
Solvenol: Hercules Powder Co., Wilmington, Del., solvent.
SOLVENT CLARIFIERS DRY-CLEANING 594
Naphtha see Naphtha Coal-tar
Recovery Carbon see Carbon Solvent Recovery
SOLVENT RECOVERY APPARATUS 693
SOLVENTS see also individual headings as Alcohol; Benzol; Amyl Acetate; etc.
CELLULOSE ACETATE 416
CHLORINATED 416
COAL-TAR 417
COSMETICS 584
CRUDE 417
DRY-CLEANING 595
DRUG EXTRACTING 585
DYE 585
ETHYL CELLULOSE 418
FATS & OILS 585
HIGH FLASH 419
INK 585
LACQUER 586
METAL DEGREASING 586
NITROCELLULOSE 587
Nitrocelluloss see Solvents Pyroxylin
PAINT 587
PETROLEUM 419
RUBBER 587
SHELLAC 587
TERPENE 419
VARNISH 587
Solvesso: Esso Standard Oil Co., N. Y. C., aromatic solvents.
Sol-Vet: Anderson-Stoia Corp., K.C., Mo., water treating formulas.
Solvink: Greenville Chem. Co., Greenville, S.C., stain remover.
Solvit: Emulsol Corp., Chicago, Ill., vitamin emulsifier.
Solvohols: Felton Chem. Co., Inc., Bklyn., N. Y., non-alcoholic solvents.
Solvol: Western Mich. Chem. Co., Muskegon, Mich., wall cleaner.
Sonasco: Southern Naval Stores Div., Columbia, Miss., turpentine.
Sonco: E. Sonnenschein & Co., Inc., N. Y. C., dyes chemicals.
Soo-ox: Chem. Engineering Sales Co., Chicago, Ill., soot remover.
Sootone: Foodwaters Inc., N.Y.C., soot remover.
Sootracide: Metropolitan Refg. Co., Inc., L.I. City, N.Y., soot remover.
Sophora: Givaudan-Delawanna, Inc., N.Y.C., perfumers specialty.
Sorapal: General Dyestuff Corp., N. Y. C., detergent.
Sorapon: General Dyestuff Corp., N. Y. C., scouring agent.
Sorbax: Atlas Pwdr. Co., Wilmington, sorbitol solutions.
SORBIDE see also Sorbitol Esters 420
Sorbit: Alrose Chem. Co., Cranston, Prov., R. I., alkyl naphthalene sulfonates.
SORBITAN see also Sorbitol Esters 420
ESTERS 420
d-Sorbite see Sorbitol
SORBITOL see also Sorbitol Esters 420
ESTERS 420
Sorbo: Haviland Prods. Co., Grand Rapids, Mich., absorbent.
Sorbo: Atlas Powder Co., Wilmington, Del., sorbitol solutions.
Sorolene: Onyx Oil & Chem. Co., Jersey City, N. J., wetting agent.
Soromine: Geo'it Dyestuff Corp., N.Y.C., softening & fixing agent.
Sorensen's Phosphate see Sodium Phosphate Tri-Sodium
Sotex: Synthetic Chemicals Inc., Paterson, N. J., dispersing agts.
Sour-Be: Wyandotte Chems. Corp., Wyandotte, Mich., laundry sour.
SOURS LAUNDRY 597
Sour-Tec: Wyandotte Chems. Corp., Wyandotte, Mich., laundry sour.
Southland: Cabot Carbon Co., Gainesville, Fla., pine prods.
SOYBEAN FLOUR 420
MEAL & CAKE 420
Soy Oil see Oil Soya Bean
SP Flake: Pittsburgh Plate Glass Co., Pittsburgh, Pa., bottlers' alkali.
Span: Atlas Powder Co., Wilmington, Del., wetting agents.
Spanish Oxide see Iron Oxide Red
Saffron see Saffron American
White see Bismuth Subnitrate
Whiting see Calcium Carbonate
Sparkleen: Wollen Chem. & Supply Co., Paterson, N. J., dishwashing powder.
Spark-O-Sun: Bonewitz Chems. Inc., Burlington, Ia., caustic soda comp.
Spartuf: Brooklyn Varnish Mfg. Co., Inc., B'klyn, N.Y., spar varnishes.
Spatter EX: Wayne Chemical Products Co., Detroit, Mich., spatter preventive.
Spatter Nox: Mahoning Paint Corp., Youngstown, O., welding liquid.
Spauldite: Spaulding Fibre Co., Inc., Tonawanda, N.Y., laminated plastic.
Spauldo: Spaulding Fibre Co., Inc., Tonawanda, N.Y., insulating paper.
Special Hydratex: J. M. Huber Corp., N.Y.C., clay (paper coating).
Special-X: American Bio-Synthetic Corp., Milwaukee, Wisc., soldering flux.

Special-X: Industrial Service Labs., Milwaukee, Wis., soldering flux.
Speck: Lanatex Chem. Co., Providence, R. I., dyes.
Speck Dyes see Dyes Speck
SPECTROMETERS, MASS 693
SPECTROPHOTOMETERS 693
  PHOTOELECTRIC 693
  RECORDING 693
Speed Valve: Autoclave Engineers Inc., Erie, Pa., high pressure valve.
Speed-Changer: Allis-Chalmers, Milwaukee, Wisc., vari-pitch variable.
SPEED CHANGERS 693
Speedilex: Brooklyn Varnish Mfg. Co., Inc., B'klyn., N. Y., spar varnish.
Speedlift: Lewis Shepard Prods., Inc., Watertown, Mass., hand lift trucks.
Speedomax: Leeds & Northrup Co., Phila., Pa., recorders.
Speed-Opaque: M. Grumbacher Inc., N. Y. C., film opaque.
Speed-set: Allis-Chalmers, Milwaukee, Wisc., product control.
Speedsit: Ruehl Paint Co., Cincinnati, O., paint & varnish remover.
Speedster: Webb Belting Co., Kansas City, Mo., leather belting.
Speed Tone: National Chemical Co., Los Angeles, Calif., photographic toners.
Speedtuf: Brooklyn Varnish Mfg. Co., Inc., B'klyn, N.Y., quick drying varnish.
Speedway: Toledo Scale Co., Toledo, O., packing scale.
Speedway: Weight Hoist Division; American Chain and Cable Co., Inc., York, Pa., electric hoists.
Spekaluminite: Special Chemicals Corp., N.Y.C., coating.
Spekwite: Special Chemicals Corp., N.Y.C., electroplate.
Spekyelle: Special Chemicals Co., N.Y.C., electroplate.
Spencer: Amer. Optical Co., Buffalo, N. Y., optical instrument.
Spensol: Spencer Chemical Co., Kansas City, Mo., ammoniating solutions.
Spergon: Naugatuck Chemical Div. U. S. Rubber Co., N. Y. C., fungicide.
Spermatine: Strohmeyer & Arpe Co., N. Y. C., montan wax.
Sphepon Channel: H. N. Richards Co., Trenton, N. J., carbon black.
Sphinx: Arabol Mfg. Co., N.Y.C., adhesive.
Spiegel: Pump Corp., Chicago, Ill., pumps.
Spinesso: Esso Standard Oil Co., N. Y. C., lubricating oils.
Spiralok: Hercules Powder Co., Wilmington, Del., explosives.
Spirit Dybryte: Amer. Cyanamid Co., Calco Chem. Div., Bound Brook, N. J., dyes.
Spirit Soluble Dyes see Dyes Spirit Soluble
Spirits of Hartshorn see Ammonia Aqua
Spirits of Wine see Alcohol Ethyl
SPIRITS, MINERAL 420
Spiroto: Gotham Ink & Color Co., L. I. City, N. Y., alcohol gravure inks.
Sponge Paste: C. P. Hall Co., Akron, O., blowing agt.
SPOT-PROOFING COMPOUNDS 587
Spracoil: The Marley Co., Inc., Kansas City, Kansas.
Spra-glu: National Casein Sales, Chicago, Ill., calcium caseinate.
Spra-Rite Nozzles: Binks Mfg. Co., Chicago, Ill., spray nozzles.
Spray: Paisley Prods., Inc., Chicago, Ill., non-offset spray sol.
Spray-All: B. R. Elk Co., Garfield, N. J., insect powders.
SPRAY BASES, AGRICULTURAL 588
  BASES CATTLE 588
  BASES FLY 588
  PONDS 692
SPRAYERS, AIR PRESSURE 693
SPRAYERS, STEAM PRESSURE 693
SPRAYING MACHINES 693
Sprayit: Keystone Chem. Co., Cleveland, O., insecticide.
SPREADERS AGRICULTURAL SPRAY 588
  GLUE 588
Sprex A. C.: The Dubois Co., Cincinnati, O., steam detergent.
Sprin-Cal: Faesy-Besthoff Inc., N. Y. C., snow removal agent.
SPROCKET WHEELS 693
Sprout-Lok: Westville Labs., Monroe Center, Conn., hormone sprout inhibitor.
SPRUCE EXTRACT 420
Sqeez-Aire: White Rose Chemical Co., Salem, Ore., deodorant.
Squeez-grip: C-O-Two Fire Equipt. Co., Newark, N. J.
Sqeez-Kleen: White Rose Chemical Co., Salem, Ore., window cleaner.
Stabilisal C: Advance Solvents & Chem. Corp., N. Y. C., anti-greening agent.
Stabilite: C. P. Hall Co., Akron, O., antioxidant.
Stachlor: Ameeco Chems. Inc., N. Y. C., stabilized chlorinated paraffins.
Stackers: Lewis Shepard Prods., Inc., Watertown, Mass., portable elevators.
STABILIZERS (Polyvinyl Chloride Resins) 588
STABILIZERS, HEAT RESISTANT 588
STABILIZERS, LIGHT RESISTANT 588
Stablog: Foxboro Co., Foxboro, Mass., electronic instruments.
STACKING MACHINERY 693
Stad: Chapman Chemical Co., Memphis, Tenn., weed killer.
Stafco: Stahl Finish Co., Peabody, Mass., leather paste.
Staflex: Deecy Products Co., Cambridge, Mass., plasticizers.
Stanlosa: Andrew Brown Co., Los Angeles, Calif., enamels.
Staincure: Wilbur & Williams Co., Boston, Mass., stain sealer.
Stain-Go: Stain-Go Labs., Detroit, Mich., stain removers.
Stainite: The Robinson Clay Product Co., Akron, O., acid-proof cement.
Stainlend: Arcos Corp., Philadelphia, Pa., electrodes.
Stainless No. 20: Carpenter Steel Co., Reading, Pa., for corrosion resistances.
STAIN REMOVERS see also Removers Textile Stain 589
STAINS BIOLOGICAL 589
  BODY AND SLIP CERAMIC 589
    Masonry see Stains Brick
  SHINGLE 589
  WOOD 589
Sta-Kleen: Allis-Chalmers, Milwaukee, Wisc., vibrating screen.
Stan-Add: Standard Oil Co. (Indiana), Chicago, Ill., lubricant additives.
Stan-Clay: Harwick Standard Chem. Co., Akron, O., clay.
Stance: United Carbon Co., Inc., Charleston, W. Va., uncompressed.
Stance A: Standard Chem. Wks. Co., Columbus, O., laundry sour.
Standafin: Standard Chem. Products, Inc., Hoboken, N. J., textile finish.
Standapol H: Stand. Chem. Prods., Inc., Hoboken, N.J., sulph. oil.
Standard: National Soap & Chem. Co., Minneapolis, Minn., soap powders.
Standard Electrowax: Ozokerite Mining Co., Grand Raipds, Mich. electrotypers wax.
Standatrol: Bailey Meter Co., Cleveland, O., air-operated relay.
Standrive: Lewis Shepard Prods. Inc., Watertown, Mass., fork trucks.
Stanlent: Standard Oil Co. (Indiana), Chicago, Ill., cutting oils.
Stan-Mark: Harwick Standard Chem. Co., Akron, O., crayons.
Stannic Anhydride see Tin Peroxide
  Chloride see Tin Tetrachloride
  Oxide see Tin Peroxide
Stannous see Tin Oxalate
Stannous Chloride see Tin Chloride
  Fluoborate see Tin Fluoborate
  Oxide see Tin Oxide
Stannum see Tin
Stanogear: Standard Oil Co. (Indiana), Chicago, Ill., lubricants.
Stanoils: Standard Oil Co. (Indiana), Chicago, Ill., industrial oil.
Stanol: Standard Chem. Co., Phila., Pa., sulfonated castor oil.
Stano-Rust: Standard Oil Co. (Indiana), Chicago, Ill., rust proofing compn.
Stan-Shell: Harwick Standard Chem. Co., shell flour.
Stansi: Standard Science Supply Co., Chicago, Ill., scientific prods.
Stanteosine: Standard Chem. Products, Inc., Hoboken, N. J., cationic softener.
Stan-Tex: Harwick Standard Chem. Co., Akron, O., waterground clay.
Stan-Tone: Harwick Standard Chem. Co., Akron, O., masterbatch colors.
Stantx: Standard Chem. Products, Inc., Hoboken, N. J., textile oil.
Stan-White: Harwick Standard Chem. Co., Akron, O., whiting.
Stapak: Continental Can Co. Inc., N. Y. C., fibre drums.
Sta-Put: E. F. Houghton & Co., Philadelphia, Pa., oil & greases.
Staphene: Vestal Incorporated, St. Louis, Mo., germicide.
Star: Phila. Quartz Co., Phila., sodium silicate solution.
Star 5X Alkali: Wyandotte Chems. Corp., Wyandotte, Mich., alkaline detergent.
Starate: Geo. E. Howard, Harrisburg, Pa., sodium compounds.
Starbuck Gum: Arnold, Hoffman & Co. Inc., Providence, R. I., finishing compd.
STARCH CORN 420
  IMPROVERS 589
  POTATO 420
  RICE 421
  SAGO 421
  SWEET POTATO 421
  WHEAT 421
STARCHES LAUNDRY 589
  PAPER 589
  SOLUBLE 589
  SYNTHETIC 589
  TEXTILE 589
Starchtex: Nopco Chem. Co., Harrison, N.J., starch lubricant.
Starilide: Mallinckrodt Chem. Wks., St. Louis, Mo., potassium iodide.
STARTERS, MOTOR 694
Startex: H. Kohnstamm & Co., Inc., N. Y. C., laundry alkali.
Staryl: Lamex Chem. Corp., N. Y. C., sodium propionate.
Stassfurt Salts see Potash Salts
Statek: Kraft Chem. Co., Chicago, Ill., pitch.
Staybelite: Hercules Powder Co., Wilmington, Del., resin.
Staybelite Ester: Hercules Powder Co., Wilmington, Del., syn. resin.
Staysin: Warren Refg. & Chem. Co., Cleveland, Ohio, grease.
Ste. Genevieve: Mississippi Lime Co., Alton, Ill., lime.
STEAM SYSTEM TREATMENT 589
STEARIC ACID see Acid Stearic
  SUBSTITUTES 589
STEARINE 421
  Pitch see Pitch Stearine
Stearite: Witco Chem. Co., N. Y. C., hydrogenated oils.
Stearophanic see Acid Stearic
Steatite see Talc
"Stedman": Scientific Glass Apparatus Co., Inc., Bloomfield, N. J., fractionating columns.
STEEL CHROME 694
  CHROMIUM-NICKEL 694
  STAINLESS 694
  STAINLESS, CLAD 694
Steeler: Lewis Shepard Prods. Inc., Watertown, Mass., 2 wheel trucks.
Steel Filings see Filings Iron and Steel
Steelflex: Falk Corp., Milwaukee, Wisc., couplings.
Steel-Kleen: Heatbath Corp., Springfield, Mass., alkali cleaner.
Steelkraft: Fibre Drum Co., Chicago, Ill., drums, fibre.
Steel-Set: Painsley Prods. Inc., Chicago, Ill., glue.
Steelyfe: Bee Chem. Co., Chicago, Ill., corrosion inhibitor.
STEEL SHELLS, SEAMLESS 694
Steinbuhl Yellow see Barium Chromate
Steelbuilt: Penn. Crusher Co., Phila., Pa., coal crushers.
Stellar: Edgar Brothers Co., Metuchen, N.J., paper coating clay.
Stellar: Infilco, Inc., Chicago, Ill., filter.
Stencil Glue see Glues Stencil
  Inks see Ink Stencil
  Softeners see Softeners Stencil
Stenol: Du Pont Co., Fine Chems. Div., Wilmington, Del., fatty alcohol.
Stepanate: Stepan Chem. Co., Chicago, Ill., sulfonates.
Stepanol: Stepan Chem. Co., Chicago, Ill., lauryl sulfates.
Step-Valve: Milton Roy Co., Chestnut Hill, Pa., pumps.
Steri-Chlor: Wyandotte Chems. Corp., Wyandotte, Mich., germicide.
Steriflow: Hormann & Co. Inc., B'klyn, N. Y., filter pads.
STERILIZERS 694
Steriseal: Anchor Hocking Glass Corp., Lancaster, Ohio, capping machine.
Steri-Seald: Inland Steel Container Co., Chicago, Ill., pail lining
Steri-aid: An-fo Mfg. Co., Oakland, Calif., dairy disinfectant.
Sterling: International Salt Co., Inc., Scranton, Pa., salt.
Sterling Furnace: H. N. Richards Co., Trenton, N.J., carbon black.
Sterlite: National Soap & Chem. Corp., Minneapolis, Minn., washing compounds.
Steri-Rinse: Industrial Chem. Prods. Co., Phila., Pa., sterilizing comp.
Ster-o-kem: Damon Chemical Co., Alliance, O., sterilizers.
Sterolan: Robinson Wagner Co., Inc., N.Y.C., lanolin sterols.
Sterolite: Will Corp., Rochester, N. Y., baskets.
STEROLS 421
Sterosol: Wallerstein Co. Inc., N.Y.C., germicide.
Stibium see Antimony metal
Stibnite see Antimony Sulfide
Stick Lac see Shellac
Stic-Tite: Refractory & Insulation Corp., N.Y.C., insulating cement.
STIFFENERS LEATHER 589
  RUBBER 590
  TEXTILE 590
Stiktotin: Marks Chem. Works, N. Y. C., label paste.
Stik-Quik: Midland Glue Products Co., Inc., Detroit, Mich., bottle label glue.

Stilbene: General Dyestuff Corp., N.Y.C., direct dye.
Stilbest: Linick Chem. Co., Chicago, Ill., solder flux.
Siliceous Sinter see *Fluorspar*
STILLS, ALCOHOL 694
AMMONIA 694
FATTY ACID 694
GLYCERINE 694
HORIZONTAL 694
LABORATORY 694
PIPE 694
PRESSURE 694
SOLVENTS RECOVERY 694
VACUUM 694
WATER 694
Stirling: The Babcock & Wilcox Co., N. Y. C., boilers.
STIRRERS 695
GLASS 695
STITCHERS, CARTON 695
Stix: Adhesive Prods. Corp., N. Y. C., plastic cement.
Stixso: Phila. Quartz Co., Phila., sodium silicate.
STODDARD SOLVENT 421
Stokatimer: Mercoid Corp., Chicago, Ill., stoker control.
STOKERS 695
Stolsite see Lead Tungstate
Stone Flax see Asbestos
Stonelite: Ohio Hydrate & Supply Co., Woodville, O., limestone flour.
STONEWARE, ACID-PROOF 695
STOPCOCKS, HOLLOW PLUG TYPE 695
Stoneleum: Continental Asbestos & Refg. Corp., N.Y.C., flooring.
STOPPERS 695
RUBBER 695
Stop Rot: Miller Chemical Co., Omaha, Nebr., pentachlorphenol.
Storage Battery Enamels see Enamels Storage Battery
Sealers see Sealers Storage Battery
STORAGE SYSTEMS, COAL 695
Storm King: Warren Refg. & Chem. Co., Cleveland, Ohio, roofing compound.
Stormy Weather: Protection Products Mfg. Co., Kalamazoo, Mich., canvas preservative.
Stove Clay see Clay Stove
Straddle: Hyster Co., Portland, Ore., lumber carriers.
STRAINERS, INDUSTRIAL 695
OIL 695
PIPELINE 695
SUCTION 695
Straitline: Viking Pump Co., Cedar Falls, Iowa, rotary pump.
Stratone Dispersions: Claremont Pigment Dispersion Corp., Brooklyn, N. Y., dry dispersions.
Straw Bleaches see Bleaches Straw
Dyes see Dyes Straw
Streamjet: Spraying Systems Co., Bellwood, Ill., spray nozzles.
Streamliner: Precision Scientific Co., Chicago, Ill., water still.
STREPTOMYCIN 421
Strip-Ex: Crescent Chemical Corp., Perth Amboy, N. J., paint remover.
Strip-Kleen: Kem Labs., Bronx, N. Y., text. stripper.
Stripode: Chemical Corp., Springfield, Mass., addition agent.
Stripkolex: Du Pont Co., Explosives Dept., Wilmington, Del., dynamite.
STRIPPERS DRY-CLEANING 590
Paint see Removers Paint and Varnish
TEXTILE 590
Stripping Agents see Individual Headings such as Sodium Hydrosulfite, Sodium Sulfide; etc.
Salt see Potash Salts
Stripsol: Paisley Prods., Inc., Chicago, Ill., stripping glue.
Stripsit: A. J. Stull & Co., Philadelphia, Pa., stripping comp.
Stroba: Glyco Prods., Co., Inc., Bklyn., N. Y., syn. wax.
Strontia see Strontium Oxide
STRONTIUM (Metal) 421
BROMIDE 421
CARBONATE 421
CHLORIDE 422
CHROMATE 422
2-ETHYL HEXOATE 422
FLUORIDE 422
HYDROXIDE 422
LACTATE 422
LAURATE 422
NAPTHENATE 422
NITRATE 422
OXALATE 422
OXIDE 422
PEROXIDE 422
SALICYLATE 422
STEARATE 422
SULFATE 422
SULFIDE 422
TARTRATE 422
TITANATE 422
ZIRCONATE 423
Strux: E I du Pont de Nemours & Co., Plastics Dept., Wilmington, Del., cellular cellulose acetate.
STRYCHNINE ALKALOID 423
NITRATE 423
SULFATE 423
STUFFING COMPOUNDS, LEATHER 590
Stymer: Monsanto Chem. Co., Boston, Mass., acetate rayon size.
Styralyl Acetate see Chemicals Aromatic
Styratone: Claremont Pigment Dispersion Corp., Bklyn., N. Y., dispersions.
Styrax Benzoin see Gum Benzoin
STYRENE DIBROMIDE 423
MONOMER 423
OXIDE 423
Styresol: Reichhold Chems., Inc., Detroit, Mich., alkyd resins.
Styron: Dow Chemical Co., Midland, Mich., adhesives.
Sublimed White Lead see Lead Sulfate Basic
Sublac: Herron Bros. & Meyer, Inc., Akron, O., rubber stiffening agt.
Submerso-Fak: Cincinnati Industries Inc., Cincinnati, O.
Succinaldehyde see Succinic Anhydride
SUCCINIC ANHYDRIDE 423
SUCCINIMIDE 423
SUCCINYL SULFATHIAZOLE 423
Suco: Jensen & McClelland, Chicago, Ill., colors.
SUCROSE OCTA ACETATE 423
Sudan: General Dyestuff Corp., N.Y.C., oil dye.
Sudeol: Nelson Chemicals Corp., Detroit, Mich., laundry soap.
Suds A Lot: Barton Chemical Co., Chicago, Ill., synthetic soap.
Suds: W. D. Carpenter Co. Inc., Syracuse, N.Y., soap powder.
Suede Dyes see Dyes Suede
Soaps see Soaps Suede Leather
SUGAR Defecants see Defecants Sugar
REFINING AGENTS 590
of Lead see Lead Acetate
OF MILK 423
SUGARS RARE 424
Suico: Sullivan Co., Memphis, Tenn., cement mixing compd.
Su-Lac: Twin City Shellac Co. Inc., B'klyn., N. Y., substitute shellac.
SULFABENZAMIDE 424
SULFADIAZINE 424
SULFAGUANIDINE 424
SULFAMERAZINE 424
Sulfamidyl see Sulfanilamide
SULFANILAMIDE 424
2-Sulfanilamidopyridine see Sulfadiazine and Sulfapyridine
Sulfanilylguanidine see Sulfaguanidine
Sulfanole: Sun Chemical Corp., L. I. C., N. Y., syn. detergent.
Sulfanthrene: Du Pont Co., Dyestuffs Div., Wilmington, Del., dyes.
SULFAPYRIDINE 425
Sulfatate B: Glyco Prods. Co., Inc., Brooklyn, N.Y., wetting agent.
Sulfate of Ammonia see Ammonium Sulfate
SULFATED HIGHER ALCOHOLS 590
SULPATHIAZOLE 425
Sulfethylic see Acid Ethylsulfonic
Sulfide White see Lithopone
Sulfidol see Sulfur Colloidal
Sulfo: W. A. Wood Co., Boston, Mass., cutting oils.
Sulfoarsenious Anhydride see Arsenic Sulfide Yellow
Sulfocarbamide see Thiourea
Sulfocarbanilide see Thiocarbanilide
Sulfocolaurate: Emulsol Corp., Chicago, Ill., dental detergent.
Sulfogene: Du Pont Co., Dyestuffs Div., Wilmington, Del., dyes.
Sulfoid see Sulfur Colloidal
Sulfol: E. F. Houghton & Co., Philadelphia, Pa., wool oils.
Sulfolan: Robinson Wagner Co., Inc., N.Y.C., lanolin base.
Sulfolaurel: Chemo Puro Mfg. Corp., L. I. City, N. Y., sulfonated lauryl alcohol.
Sulfonate Alpha see Sodium Naphthionate
SULFONATED Castor Oil see Oil Sulfonated Castor
Cod Oil see Oil Sulfonated Cod
OIL SUBSTITUTES 590
Oils see Oils Sulfonated also Oil Turkey Red
Olive Oil see Oil Sulfonated Olive
Tallow see Tallow Sulfonated
Sulfonators see Kettles Sulfonating, also Sulfonating Equipment
SULFONATES 590
SULFONATING EQUIPMENT see also Kettles, Sulfonating 695
Sulfonine: Sandon Chem. Wks., Inc., N. Y. C., milling dyestuffs.
Sulfonyl see Sulfuryl Chloride
Sulfophenate see Calcium Sulfocarbolate
Sulfophenolate see Calcium Sulfocarbolate
Sulforon: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., fungicide.
Sulfotail: The Beacon Co., Boston, sulfonated tallow.
Sulfoures see Thiourea
Sulfoxite: Du Pont Co., Dyestuffs Div., Wilmington, Del., dye reducing agt.
Sulframin: Ultra Chemical Works, Inc., Paterson, N. J., detergents.
Sulfricin: Baker Castor Oil Co., N. Y. C., sulphonating base oil.
SULFUR (Colloidal, Medicinal) 425
SULFUR (Raw, Brimstone) 425
AGRICULTURAL 590
DICHLORIDE 426
DIOXIDE 426
FLOUR 426
FLOWERS 426
HEXAFLUORIDE 427
Gold see Antimony Sulfide Golden
Lac see Sulfur Precipitated
MONOCHLORIDE 427
PRECIPITATED 427
Subchloride see Sulfide Monochloride
WETTABLE 427
Sulfurated Lime see Calcium Sulfide
Sulfuretted Hydrogen see Hydrogen Sulfide
Sulfuric Acid see Acid Sulfuric
Chloride see Sulfuryl Chloride
Chlorohydrin see Acid Chlorosulfonic
Ether see Ether
Fuming see Oleum
Sulfurous Acid see Acid Sulfurous
Sulfurous Acid Anhydride see Sulfur Dioxide
SULFURYL CHLORIDE 427
Sulphol: Kehew-Bradley Co., Boston, leather oil.
Sulphon: Gen'l Dyestuff Corp., N.Y.C., acid dye.
Sulphonamide P. see Sulfanilamide
SUMAC 427
EXTRACT 427
Wax see Wax Japan
Sumatra Camphor see Borneol
SUMPS STONEWARE 695
Sunaromes: Felton Chemical Co., N.Y.C., sunscreen.
Sunglah: Midland Labs., Dubuque, Iowa, cream furniture polish.
Sunolite: Witco Chem. Co., N. Y., anti-sunchecking wax.
Suneith: Chem. & Pigments Co., Baltimore, Md., lithopone.
Sunrise: Adelphi Paint & Color Wks., Ozone Pk., N. Y., paints, enamels.
Sunscreen Dpgs: Chemo Puro Mfg. Corp., L.I. City, N.Y., glycol salicylate.
Sunseal: Cole & DeGraf, San Francisco, Calif., wheat paste.
Sunshine: Uncle Sam Chem. Co. Inc., N. Y. C., floor cleaner.
SUNTAN BASE 591
Suntone: Sun Chemical Corp., L. I. C., N. Y., text. pigment.
Super Aetna: Reichard-Coulston Inc., N.Y.C., red oxide.
Super Bond: Cataract Chemical Co., Inc., Buffalo, N.Y., leather cement.
Super Clarifier: Sharples Corp., Phila., Pa., centrifuge.
Super Clear: Du Pont Co., Finishes Div., Wilmington, Del., varnish.
Super Multifex: Diamond Alkali Co., Cleveland, Ohio, calcium carbonate.
Super Plate: Cherry-Burrell Corp., Chicago, Ill., heat exchanger.

Super Plastic: Laclede-Christy Co., St. Louis, Mo., refractories.
Super Pyro: U. S. Industrial Chems. Inc., N. Y. C., auto. anti-freeze.
Super Soilax: Economics Laboratory, Inc., Saint Paul, Minn., detergent.
Super Speed: Tri-Clover Machine Co., Kenosha, Wis., tools.
Super Weevil Death: G. S. Robins & Co., St. Louis, Mo., weevil fumigant.
Superarome, Fritzbro: Fritzsche Bros. Inc., N. Y. C., flavor base.
Superba: Curry Oil Co., Boston, Mass., oils & greases.
Super-Heckacite: Reichhold Chemicals, Inc., Detroit, Mich., phenolic resins.
Superchem: Superior Chemical Works, Louisville, Ky., inhibitors.
Superchlor: G. S. Robins & Co., St. Louis, Mo., sodium hypochlorite.
Superclear: Jacques Wolf & Co., Passaic, N.J., printing thickener.
Super-D-Canter: Sharples Corp., Phila., Pa., centrifuge.
Super-D-Hydrator: Sharples Corp., Phila., Pa., centrifuge.
Superdur: C. J. Osborn Co., N.Y.C., white pigment.
Superex: E. J. Verde & Co., N.Y.C., tallow.
Super-Excello: Neatsfoot Oil Refineries Corp., Phila., Pa., neatsfoot oils.
SUPERFATTING AGENTS 591
Superflake: Superior Flake Graphite Co., Chicago, Ill., graphite.
Supergauge: United States Gauge Div., Sellersville, Pa.
SUPERHEATERS 695
STEAM 695
Superhomd: Cherry-Burrell Corp., Chicago, Ill., homogenizers.
Superior: Allis-Chalmers, Milwaukee, Wisc., jaw crushers.
Superior: Kinnear Mfg. Co., Columbus, O., shutters.
Superior: J. S. McCormick Co., Pittsburgh, Pa., foundry facing.
Superior: Palmer Thermometers Inc., Norwood, Cincinnati, O., thermometers.
Superior Brand: Chas. L. Read & Co., Inc., N.Y.C., wood turpentine.
Superkore: Carnegie-Ill. Steel Corp., Pittsburgh, Pa., alloy steel.
Superla: Standard Oil Co. (Indiana), Chicago, Ill., soluble oil.
Superlative: Dietrich Prods. Co., St. Louis, Mo., anilines.
Super-Limoid: Warner Co., Philadelphia, Pa., dolomitic hydrated lime.
Superlith: C. J. Osborn Co., N.Y.C., sulphide.
Superloid: Keico Co., N.Y.C., algin.
Supermet: Superior Metal Powders Corp., Toledo, O., iron powder.
SuperNill P: S. B. Penick & Co., N.Y.C., vanilla products.
Superol Toners: Holland Color & Chem Co., Holland, Mich., lithol reds.
Superpax: Titanium Alloy Mfg. Div., Nat'l Lead Co., N.Y.C., glaze opacifier.
SUPERPHOSPHATE 427
Super-Plastic: A. P. Green Fire Brick, Mexico, Mo., plastic firebrick.
Superplate: Cherry-Burrell Corp., Chicago, Ill., regenerators.
Supersan: Superior Chemical Works, Louisville, Ky., syn. zeolites.
Superset: Amer. Cyanamid Co., N. Y. C., resin shrinkage control prep.
Supersheat: Greene Tweed & Co., North Wales, Pa., packings.
Super-sludge solvent: Superior Chemical Works, Louisville, Ky., oil additive.
Super-Sol: Penna Refining Co., Butler, Pa., hydrocarbon oil.
Supersolvent: Superior Chemical Works, Louisville, Ky., boiler tube cleaning.
Superspray: Ohio Hydrate & Supply Co., Woodville, O., hydrated lime.
Superteck: Penna Refining Co., Butler, Pa., tech. white oil.
Super-Tough: Willson Products Inc., Reading, Pa., safety goggle.
Suprial Mix: Laclede-Christy Co., St. Louis, Mo., cement refractory.
Supramine: Gen'l Dyestuff Corp., N.Y.C., acid dye.
Supranol: Gen'l Dyestuff Corp., N.Y.C., acid dye.
Supreme: Kelite Prods. Inc., Los Angeles, Calif., laundry soap.
Supreme: Palmyra Lime Prods. Co., Clarksville, Tenn., lime.
Supreme: The Pannier Corp., Pittsburgh, Pa., steel stamp holders.
Supremis: Du Pont Co., Finishes Div., Wilmington, Del., varnish.
Suprex: J. M. Huber Corp., N.Y.C., clay (rubber).
Suretf: Esso Standard Oil Co., N. Y. C., adhesive lubricants.
SURFACE ACTIVE AGENTS 591
Surewald: National Cylinder Gas Co., Chicago, Ill., electrodes.
Surfax: E. F. Houghton & Co., Philadelphia, Pa., wetting agents.
Surfex: Diamond Alkali Co., Pure Calcium Prods. Div., precip. calcium carbonate.
Suspense: Niagara Chem. Div. Food Machinery Corp., Middleport, N. Y., lead arsenate.
Suspension: Baker-Raulang Co., Cleveland, Ohio, axle suspension.
SUSPENSION AGENTS 592
Suspenso: Diamond Alkali Co., Pure Calcium Prods. Div., precip. calcium carbonate.
Swanee Clay: R. E. Carroll, Inc., Trenton, N. J., rubber filler.
Swansdown: Diamond Alkali Co., Pure Calcium Prods. Div., precip. calcium carbonate.
Swaydex: Maas & Waldstein Co., Newark, N.J., flock finishes.
Sweatless: Paisley Prods., Inc., Chicago, Ill., moisture absorbent.
Swedish Green see Copper Arsenite
Sweeco: Sheffield Farms Co., Inc., Norwich, N. Y., milk sugar.
SWEEPING COMPOUND 592
Sweet Oil see Oil Olive and Oil Almond
SWELLING AGENTS RUBBER 592
SWITCHBOARDS 695
SWITCHES 695
MERCURY 695
TIME 695
SWITCHGEAR 695
Swiveloader: Stephens-Adamson Mfg. Co., Aurora, Ill., loader unit.
Syloid: Davison Chemical Corp., Baltimore, Md., flatting agt.
Sylox: Davison Chemical Corp., Baltimore, Md., medicated powder.
Syphon: Warren Webster & Co., Camden, N. J., radiator traps & valves.
Sylvanium see Tellurium Metal
Sylvenol: Dow Chemical Co., Midland, Mich., aromatic chem.
Sylviola: Dow Chemical Co., Midland, Mich., aromatic chem.
Syrvita see Potassium Chloride
Symmetrical Chlorbromethane see Ethylene Chlorbromide
Symons: Nordberg Mfg. Co., Milwaukee, Wis., cone crusher.
Syn Tac: C. P. Hall Co., Akron, O., plasticizer.
Synaryl: Alkydol Labs., Inc., Cicero, Ill., phenolic resins.
Syncaine see Procaine Hydrochloride
Synchro: Bristol Co., Waterbury, Conn., control valve.
Synchro-operator: Allis-Chalmers, Milwaukee, Wisc., synchronizing device.
Synero-green: Andrew Brown Co., Los Angeles, Calif., zinc chromate primer.
Synfect: Naugatuck Chem. Div. U. S. Rubber Co., N. Y. C., insecticide.
Syndul: Synthron, Inc., Ashton, R. I., dullers.
Synektan: Jacques Wolf & Co., Passaic, N.J., synthetic tannin.
Synflex: Andrew Brown Co., Los Angeles, Calif., syn. enamels.
Synite: The Arco Co., Cleveland, O., enamels.
Synklor: Naugatuck Chem. Div. U. S. Rubber Co., N. Y. C., insecticide.
Syn-O-Tel: E. F. Drew & Co., Inc., N. Y. C., condensates.
Synpep N: Harsyd Chems. Inc., Holland, Mich., rubber plasticizer.
Synpex: Maas & Waldstein Co., Newark, N.J., enamels and clears.
Syn-Por: O'Neil Duro Co., Milwaukee, Wis., primer and enamel.
Syn-Suds: G. S. Robins & Co., St. Louis, Mo., detergent.
Syntan: N. Y. Color & Chem. Co., Belleville, N. J., syn. tanning agents.
Synterge: Colloids Inc., Newark, N. J., synthetic detergent.
Syntergent: Nopco Chem. Co., Harrison, N. J., detergent.
Syntergent K: Nopco Chem. Co., Harrison, N.J., fatty amine detergent.
Synthad: Baugh & Sons Co., Baltimore, Md., granular adsorbent.
Synthalak: Lacquer & Chem. Corp., B'klyn, N.Y., air-dried syns.
Syntharol: Arnold, Hoffman & Co., Prov., R.I., cotton sizing.
Syntharome: Florasynth Labs., Inc., Bronx, N. Y., flavor.
Syntha-San: Huntington Labs., Inc., Huntington, Ind., detergent.
Synthe-Copal: Reichhold Chemicals Inc., Detroit, Mich., ester gums.
Syntherge: Lewis Chem. Co., Boston, Mass., syn. soap.
Synthesize: Hercules Powder Co., Wilmington, Del., syn. textile finisher.
Synthesolv: Porter Paint Co., Cortland, N. Y., syn. reducer.
Synthetic Barytes see Blanc Fixe
Gaultheria Oil see Methyl Salicylate
Gum see Dextrin
Heavy Spar see Blanc Fixe
Oil of Wintergreen see Methyl Salicylate
Soap Powders see Sodium Laurel Sulfate also Higher Fatty Alcohols
Synthobenzoin: Bendix Chem. Corp., N. Y. C., syn. gum benzoin.
Synthocide: Synthron, Inc., Ashton, R. I., insecticides.
Synthogel: Morningstar, Nicol, Inc., N. Y. C., text. finish.
Synthographie: Synthane Corp., Oaks, Pa., printing process.
Synthol: Genseke Bros., Chicago, Ill., rubber tackifier.
Synthoian: Chemo Puro Mfg. Corp., L. I. City., N. Y., syn. cosmetic wax.
Syntholite: Synthron, Inc., Ashton, R. I., detergents.
Synthoron: Synthron, Inc., Ashton, R. I., detergent.
Synth-O-Saver: Detrex Corp., Detroit, Mich., solvent recovery machine.
Synthracene: Arnold, Hoffman & Co., Inc., Providence, R. I., anthracene dyes.
Synthrapol: Arnold, Hoffman & Co., Prov., R.I., detergent.
Synthravons: Arnold, Hoffman & Co., Prov., R.I., finishing agent.
Synthres: Synthron, Inc., Ashton, R. I., synthetic text. resins.
Syn-tite: Midland Glue Products Co., Detroit, Mich., syn. resin adhesives.
Synthomenthol: Bendix Chem. Corp., N. Y. C., syn. menthol.
Syton: Monsanto Chem. Co., Boston, Mass., woolen-worsted spinner aid.
Synvaren: Synvar Corp., Wilmington, Del., resins.
Synvarite: Synvar Corp., Wilmington, Del., formaldehyde resins.
Synvarol: Synvar Corp., Wilmington, Del., urea-formaldehyde resins.
Syracuse Brand: Will Baumer Candle Co., Inc., Syracuse, N.Y., oleic acid.

T

T-7: Kraft Chem Co., Chicago, Ill., clay.
T-21: Haviland Prods. Co., Grand Rapids, Mich., nitriding salts.
T & B: Thurston & Braidich N.Y.C., gums.
TDR: Bendix Chem. Corp., N. Y. C., titanium dioxide replacement.
T.E.P.P. see Tetrasodium Pyrophosphate
THFA: Quaker Oats Co., Chicago, Ill., tetrahydrofurfuryl alcohol.
T. K. Flat: R. B. H. Dispersions, Inc., Bound Brook, N. J., dispersing agent.
T.L.: Theodor Leonhard Wax Co., Inc., Paterson, N. J., white beeswax.
T.M.P.: Heyden Chem. Corp., N. Y. C., trimethyl propane.
T N: Phila. Quartz, Phila., sod. silicate.
TNT see Trinitrotoluene
T-o-p-: Planetary Chem. Co., Creve Coeur, Mo., insecticide.
T.P.G. see Triphenylguanidine
T R I: Imperial Chem Co., Los Angeles, Calif., soap.
TSP see Sodium Phosphate, Tri-Sodium
TSP"N": A. R. Maas Chemical Co., South Gate, Calif., trisodium nitrophosphate.
TSPP see Sodium Pyrophosphate, Tetra
T. W.: Paisley Prods., Inc., Chicago, Ill., tightwarp glue.
Tabby: Division Lead Co., Chicago, Ill., chemicals.
Table Salt see Sodium Chloride
TABLE TOPS, LABORATORY 695
TABLET FILLING AND COUNTING MACHINES 695
Tackol: Monsanto Chem. Co., St. Louis, rub. softener.
Tak: Kano Laboratories, Chicago, Ill., glue moistener.
Takalab: Takamine Lab., Inc., Clifton, N.J., dry cleaning agt.
Takamerse: Takamine Lab. Inc., Clifton, N. J., stain remover.
Take-Hold: Victor Chem. Wks., Chicago, Ill., agric. starter.
Takeoff: Windsor Wax Co. Inc., Hoboken, N. J., cleaner & wax.
Takimerse: Fakamini Labs. Inc., Clifton, N. J., enzyme.
Talase: Takamine Lab. Inc., Clifton, N. J., desizing agt.
TALC 438
Talcum see Talc and Magnesium Silicate
Talinol: Rimeo Trading Corp., N. Y. C., tall oil prods.
Tallene: Indus. Chem. Sales Div. W. Va. Pulp & Paper Co., N. Y. C., tall oil pitch.
Tallex: Indus. Chem. Sales Div. W. Va. Paper & Pulp Co., N. Y. C., abietic acid.
Talloflin: Standard Chem. Products, Inc., Hoboken, N. J., tallow softener.
Tallol: Gulf States Paper Corp., Tuscaloosa, Ala., tall oil.
Tallosan: General Dyestuff Corp., N.Y.C., softening agent.
TALLOW, ANIMAL 429
BUFFING and POLISHING 592
MUTTON 429
SIZING 592
SULFONATED 429
VEGETABLE 429
Taloco: J. C. Drouillard Co., Cleveland, O., gum turpentine.
Taloco: Taylor, Lowenstein & Co., Mobile, Ala., gum spirits turpentine.
Tamco: Tamms Silica Co., Chicago, Ill., casein glue.
Tamcrete: Tamms Industries Inc., Chicago, Ill., floor hardener.
Tamol: Rohm & Haas Co., Phila., Pa., syn. tanning agts.
Tamplite: Hercules Powder Co., Wilmington, Del., dynamite.
Tamtex: Tamms Silica Co., Chgo., cement paint.
Tanak: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., tanning extracts.
Tanasol: Jacques Wolf & Co., Passaic, N.J., synthetic tannin.
Tanco: Milwhite Co., Houston, Texas, quebracho extract.
Tan-Cote: Tamms Industries Inc., Chicago, Ill., casein paint.

Tangite: Feedwaters Inc., N.Y.C., diesel water treatment.
Tanigan: General Dyestuff Corp., N.Y.C., tanning agent.
TANKAGE (Hemite) 429
Tankometer: Uehling Instrument Co., Paterson, N.J., indicators.
TANKS, ACID 695
AIR 696
ALUMINUM 696
ALUMINUM-ALLOY 696
COPPER 696
FERMENTING 696
GALVANIZED 696
GLASS ENAMELED 696
GLASS-LINED 696
HARD RUBBER 696
HASTELLOY 696
HIGH PRESSURE 696
IRON AND STEEL 696
LEAD LINED 696
MIXING 696
MONEL METAL 697
NICKEL 697
NICKEL CHROME STEEL 697
NICKEL CLAD STEEL WELDED 697
OIL STORAGE 697
OIL WORKS 697
PLATING 697
PRESSURE 697
RUBBER LINED 697
SILICON BRONZE 697
STAINLESS STEEL 697
STEEL 697
STONEWARE 697
STORAGE 697
TREATING 697
VULCANIZING 697
WOODEN 697
Tanktrol: Automatic Control Co., St. Paul, Minn.
TANNAGES, ONE-BATH 592
Tannex: Barold Sales Div., Nat'l Lead Co., Los Angeles, Calif., organic dispersant.
Tannin see Acid Tannic
TANNING EXTRACTS 429
Tanning Grease see Degras

TANOLIN: The Martin Dennis Co., Div. of Diamond Alkali, 859 Summer Ave., Newark 4, N. J. Humboldt 3-2874

One-bath chrome tans of the basic chromium sulfate type. Dry, granular material easily soluble; convenient and safe to handle. Five types—Tanolin R-T-KXD - 225-WEXD varying in basicity, alum and chrome content. Made directly for tanning; not a by-product. For all kinds of hides and skins, for production of all varieties of finished leather.

Tanolin: Martin Dennis Co., Newark, N.J., tanning compound.
Tanoyl: Nopco Chem Co., Harrison, N.J., tanning oil.
Tansol: Greenville Chem. Co., Greenville, S.C., tanning stain remover.
TANSTUFFS see individual headings as Quebracho Extract; Sumac Extract; Cutch Extract; Myrobalan Extract; Logwood Extract; Tanning Extracts, etc.
SYNTHETIC 592
TANTALUM 430
OXIDE 430
POWDER 430
Tantol: Linick Chem. Co., Chicago, Ill., brighteners.
Tape Tite: Paisley Products Inc., Chicago, Ill., gummed tape.
Tapex: S. S. Rubber Cement Co., Chicago, Ill., adhesive.
TAPIOCA Dextrin see Dextrin
FLOUR 430
TAR Acid Oil see Oil Tar Acid
Camphor see Naphthalene
COAL 430
DAMPPROOFING 592
PINE 431
REMOVER 593
WOOD 431
TARA, Pods and Powder 431
Tarcanum see Potassium Sulfate
Tarene: Nat'l Rosin Oil Prods. Inc., N.Y.C., softeners and plasticisers.
Target: Chem. Mfg. & Dist. Co., Easton, Pa., sanitary supplies.
Targicides: Chem. Mfg. & Dist. Co., Easton, Pa., dishwashing compds.
Tarlene: Cabell Chemical Co., Huntington, W. Va., tar remover.
TARPAULINS 697
TARS 593
FISH NET 593
MOLD WASH 593
REFINED 593
ROAD 593
SATURATING 593
WATERPROOFING 593
Tartar Emetic see Antimony Potassium Tartrate
p-Tartaric Acid see Acid Racemic
Tartarus see Potassium Tartrate
Tartarus Vitriolatus see Potassium Sulfate
Tarten: Magruder Color Co., Inc., S. I., N.Y., dry colors.
Tartrated Antimony see Antimony Potassium Tartrate
Tartrazine: General Dyestuff Corp., N.Y.C., acid dye.
Tarvia: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., bituminous sol.
Tarvia-Lithic: Barrett Div., Allied Chem. & Dye Corp., N. Y. C., bituminous concrete.
Tar-X: Vejin Inc., Cincinnati, O., tar remover.
Tasil: The Charles Taylor Sons Co., Cincinnati, O., refractory.
Tasteless Salt see Sodium Phosphate Monosodium
TAURINE 431
Taurus brand: Standard Glue Co., N. Y. C., glue & gelatine.
Taxite: Sherwin-Williams Co., Chicago, Ill., paint remover.
Teal Oil see Oil Sesame
TEAR RESISTERS RUBBER 593
Tebson: Rogers Chemical Corp., Detroit, Mich., cold water paints.
Tech-Ni-Cote: Technical-Chemical Corp., Bethel, Conn., finishes.
Technoscent: Fritzsche Bros. Inc., N. Y. C., deodorant.
Tecmangam: Tennessee Eastman Corp., Kingsport, Tenn., fert. & feedstuffs.
Tecquinol: Tennessee Eastman Corp., Kingsport, Tenn., hydroquinone.
Tee Jay: Arthur S. Hoyt Co., Inc., N. Y. C., paste.
Teejet: Spraying Systems Co., Bellwood, Ill., spray nozzles.
Teel Oil see Oil Sesame
Teflon: E I du Pont de Nemours & Co., Plastics Dept., Wilmington, Del., tetrafluorethylene.
Tegacid: Goldschmidt Chem. Corp., N. Y. C., glyceryl monostearate.
Tegin: Goldschmidt Chem. Corp., N. Y. C., glyceryl monostearate.
Teglac: Amer. Cyan. Co., Industrial Chems. Div., N.Y.C., synth. resin.
Tego: Resinous Prods. & Chem. Co., Phila., Pa., resin film.
Tegosepts: Goldschmidt Chem. Corp., N. Y. C., preservatives.
Tegul: Atlas Mineral Products Co., Mertztown, Pa., acid-proof cement.
Tegul-Ampco: Atlas Mineral Products Co., Mertztown, Pa., sewer joint compound.
Tegul-Mineralead: Atlas Mineral Products Co., Mertztown, Pa., joint compound.
Tegul-Tileset: Atlas Mineral Products Co., Mertztown, Pa., tile cement.
Tegul-Vitrobond: Atlas Mineral Products Co., Mertztown, Pa., acid proof cement.
Telloy: R. T. Vanderbilt Co. Inc., N.Y.C., tellurium.
Tellurac: R. T. Vanderbilt Co. Inc., N.Y.C., rubber accelerator.
Tellurine see Diatomaceous Earth
Tellurite see Tellurium Oxide
TELLURIUM (the Metal) 431
OXIDE 431
Tellurium Dioxide see Tellurium Oxide
Telmox: Esso Standard Oil Co., N. Y. C., replacement for palm oil.
Tel-O-Fect: Zellers Falocalories, Reading, Pa., disinfectant emulsion.
Tel-Tale: Davison Chemical Corp., Baltimore, Md., silica gel.
Telura: Esso Standard Oil Co., N. Y. C., pale, filtered lubricating oils.
Temco: Thermo Electric Mfg. Co., Dubuque, Iowa, electric furnaces.
Temcometer: Thermo Electric Mfg. Co., Duboque, Iowa, temperature controllers.
Temp: Du Bois Co., Cincinnati, O., fixture cleaner.
Tempering: Heatbath Corp., Springfield, Mass., salt bath.
TempilaQ: Tempil Corp., N.Y.C., temperature-indicating paint.
Tempilstik: Tempil Corp., N.Y.C., temperature-indicating crayon.
Templets: Barada & Page, Inc., Kansas City, Mo., tablet for ice mfg.
Tempo: Pucito Rico Alcohol Co., Inc., N.Y.C., anti-freeze alcohol.
Tenamene: Tennessee Eastman Corp., Kingsport, Tenn., antioxidants.
Tenex: Newport Industries, Inc., N. Y. C., rosin.
Tenite: Tennessee Eastman Corp., Kingsport, Tenn., plastics.
Tenlo: Griffon Chem. Co., San Fran., Calif., wetting agent.
Tenn-cree: Tennessee Prods. & Chem. Corp., Nashville, Tenn., wood preservative.
Tenneysphere: Tenney Engineering, Inc., Newark, N. J., temp. test chambers.
Tenox II: Tennessee Eastman Corp., Kingsport, Tenn., antioxidant lard.
Ten Plus: Spasier Soap & Chem. Co., Santa Monica, Calif., wetting agent.
Tensil Belt: Newark Wire Cloth Co., Newark, N.J., metallic belting cloth.
Tensols: Synthetic Chemicals Inc., Paterson, N. J., wetting agts.
Tensorub: Latex Distrs., Inc., Baltimore, Md., rubber.
Tensulate: Tennessee Prods. & Chem. Corp., Nashville, Tenn., rock wool insulation.
Ten-Test: Ph. Chaleyer, Inc., N. Y. C., flavor bases.
Tepco: Tennessee Prods. & Chem. Corp., Nashville, Tenn., fine & heavy chemicals.
Tepidone: Du Pont Co., Rubber Chems. Div., Wilmington, Del., rubber accelerator.
Terebenthene see Turpentine Spirits
Teresso: Esso Standard Oil Co., N. Y. C., lubricants.
Tergilox: Scher Bros., Clifton, N.J., detergents.
Tergitol: Carbide & Carbon Chems. Corp., N.Y.C., wetting agent.
Terj: The Dubois Co., Cincinnati, O., machine detergent.
Terminala Chebula see Myrobalan Extract
Terminix: E. L. Bruce Co., Memphis, Tenn., termite control chem.
Termitine: Cabell Chemical Co., Huntington, W. Va., insecticide.
Termi-tor: Geo. Gordon Chem. Co., Kansas City, Mo., termite killer.
TERMITE EXTERMINATORS 593
Termitkil: Fuesy & Besthoff, Inc., N.Y.C., termite exterminator.
Term-X-Term: Cabell Chemical Co., Huntington, W. Va., termite insecticide.
Ternshoo: Chas. W. Young & Co., Phila., Pa., leather softener.
Terpene see Dipentene
Terpenyl Acetate see Chemicals Aromatic
Terpex: E. W. Colledge, G. B. A., Inc., Jacksonville, Fla., rosin oil.
Terpineol see Alpha Terpineol
TERPIN HYDRATE 431
TERPINEOL 432
a-TERPINEOL 432
Terposol: Hercules Pwdr. Co., Wilmington, Del., terpentine ether.
TERRA ALBA 432
Cariosa see Rotten Stone
Di Sienna see Iron Oxide Red
Japonica see Catch
Merita see Turmeric
Ponderosa see Blanc Fixe
Saponica see Gum Gambier and Gambier Extract
Silicea see Diatomaceous Earth
Terratex: Wood Treating Chem. Co., St. Louis, Mo., wood preservative.
Terra Merita see Tumeric
Tersan: Du Pont Co., Grasselli Chems. Dept., Wilmington, Del., fungicide.
Tesco-Save: Tesco Chemicals, Inc., Atlanta, Ga., wood preservative.
Tertiary Calcium Phosphate see Calcium Phosphate Tribasic
TESTING EQUIPMENT 699
TESTING EQUIPMENT, SAND 699
TESTING PAPERS 593
TESTOSTERONE 432
PROPIONATE 432
Tet-200: Planetary Chem. Co., Creve Coeur, Mo., miscible tetraethyl pyrophosphate.
Tetrabrom-m-cresol-sulfonphthalein see Bromocresol Green
Bromoethane see Acetylene Tetrabromide
BROMO FLUORESCEIN 432
Bromophenolsulfonphthalein see Bromophenol Blue
CHLORBENZENE 1:2:4:5 432
Tetrachloroethane see Acetylene Tetrachloride
Tetrachlorophenol Sulfonphthalein see Chlorophenol Blue
Tetrachloroquinone see Chloranil

TETRA CHLORETHYLENE 432
Chlormethane see Carbon Tetrachloride
Chloroethylene see Hexachlorethane
CHLORONAPHTHALENE 432
2-4-5-6 CHLORO PHENOL 432
CHLOROPHTHALIC ANHYDRIDE 432
DECANOL 433
DECYL MERCAPTAN, Tertiary 433
ETHANOLAMMONIUM HYDROXIDE 433
ETHYLPYROPHOSPHATE 433
ETHYL o-SILICATE 433
ETHYLENE PENTAMINE 433
Ethyl Ortho Silicate see Ethyl Silicate
ETHYLTHIURAM DISULFIDE 433
ETHYLENE GLYCOL 433
ETHYLENE GLYOL ESTERS 433
Hydrofurfuryl see Alcohol Tetrahydrofurfuryl
HYDROFURANE 433
HYDROFURFURYL OLEATE 433
HYDROXYQUINONE 433
HYDROXYQUINONE SALTS 433
Methyiamidophanthiazinium see Methylene Blue
METHYLAMMONIUM SALTS 433
METHYL THIURAM DISULFIDE 433
METHYLENE DIBROMIDE 433
Methylthioninchlor-Hydrate see Methylene Blue
Phenyl Stannane see Tetra Phenyl Tin
PHENYL TIN 434
POTASSIUM PYROPHOSPHATE 434
Tetralin see Tetra Hydronaphthalene
Tetrane see Butane
Tetraoxyphthalophenonanhydride see Fluorescein
Tetraphosphorous Trisulfide see Phosphorus Sesquisulfide
Tetrapol: General Dyestuff Corp., N. Y. C., spot cleaning agent.
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE 434
Tetra Sodium Pyrophosphate see Sodium Pyrophosphate, Tetra
Tetrazo: N. Y. Color & Chem. Co., Belleville, N. J., direct dyes.
Tetrazode: N. Y. Color & Chem. Co., Belleville, N. J., direct & developed dyes.
Tetrolin: Stand. Chem. Prods., Inc., Hoboken, N.J., scouring agent.
Tetrone: Du Pont Co., Rubber Chems. Div., Wilmington, Del., rubber accelerator.
Tetron: Eaton Chemicals, Inc., Los Angeles, Calif., insecticide.
Tetrosan: Onyx Oil & Chem. Co., Jersey City, N.J., germicide.
Tetsol: Lotte Chemical Co., Inc., Paterson, N. J., water softener.
Tetrylformate see Butyl Formate
Teturide: Biorganic Lab., Inc., Brooklyn, N. Y., anti-alcoholic.
Texaids: Universal Chemical Co., Boston, Mass., text. softeners.
Texamine: Commonwealth Color & Chemical Co., N. Y. C., cationic softener.
Texamine A: Textile Prods. Co., Providence, R. I., cation-active softener.
Texavon: Amer. Cyanamid Company, Industrial Chems. Div., N.Y.C., penetrating agent.
Tex-Dul: Nopco Chem. Co., Harrison, N. J., delusterant.
Texine: Consolidated Chem. Industries Inc., San Francisco, Calif., acid inhibitor.
Texo Gum: Textile Prods. Co., Prov., R.I., textile printing gums.
Texodors: Sindar Corp., N. Y. C., odors for textiles.
Texols: Universal Chemical Co., Boston, Mass., textile oils.
Texrope: Allis-Chalmers, Milwaukee, Wisc., v-belt drive prods.
Texslide: Allis-Chalmers, Milwaukee, Wisc., motor bases.
TEXTILE SPECIALTIES 593
TEXTILE WEIGHTING COMPOUNDS 593
Textiloc: Maher Color & Chem. Co., Chicago, Ill., urea-formaldehyde.
Textol: Textile Prods. Co., Prov., R.I., wetting agents.
"Textone": Mathieson Chem Corp., N.Y.C., textile processing agent.
Texway: Allis-Chalmers, Milwaukee, Wisc., motor bases.
Thalline see Thallin
THALLIUM ACETATE 434
CHLORIDE 434
FORMATE 434
IODIDE 434
METAL 434
SALTS 434
SULPHATE 434
Thallous Sulfate see Thallium Sulfate
Thanasol: Hercules Powder Co., Wilmington, Del., insecticide ingredient.
Thanite: Hercules Powder Co., Wilmington, Del., insecticide ingredient.
Tharco: The Armstrong Co., Chicago, Ill., high temp. cements.
Theine see Caffeine
Thelco: Precision Scientific Co., ovens.
Thenard's Blue see Cobalt Blue
THEOBROMINE 434
Sodio-Salicylate see Theobromine Sodium Salicylate
SODIUM SALICYLATE 434
Theocin see Theophylline
Theop: Glyco Products Co., Inc., B'klyn, N.Y., syn. rubber plasticizer.
THEOPHYLLINE 434
Theophylline Ethylenediamine see Aminophyllin
"Thermalac": Milwaukee Chemical Co., Milwaukee, Wis., detergent.
Thermatomic: R. T. Vanderbilt Co. Inc., N.Y.C., carbon black.
Thermatron: Radio Receptor Co., Inc., dielectric sealers.
Thermatron: Radio Receptor Co., Inc., dielectric heating.
Thermax: Thermatomic Carbon Co., N. Y. C., carbon black.
Thermax: R. T. Vanderbilt Co. Inc., N.Y.C., carbon black.
Thermex: Girdler Corp., Louisville, Ky., heating equipt.
Thermo: Publicker Industries, Inc., Phila., Pa., anti-freeze.
Thermo: Sunnyside Oil Co., Chicago, Ill., antifreeze alcohol.
Thermoflex: Du Pont Co., Rubber Chems. Div., Wilmington, Del., rubber antioxidant.
Thermo Flo: Brown Fintube Co., Elyria, Ohio, tank heaters.
THERMOCOUPLES 699
Thermoguide: Taylor Instrument Co., Rochester, N. Y., dial thermometers.
Thermo-Cousti: H. I. Thompson Co., Los Angeles, Calif., prefabricated insulation.
Thermohm: Leeds & Northrup Co., Phila., Pa., temperature detectors.
Thermoil-Granodine: Amer. Chem. Paint Co., Ambler, Pa., rustproofing compn.
Thermo-Hamidigraph: Bristol Co., Waterbury, Conn., recorder.
Thermokote: Vita-Var Corp., Newark, N. J., heat resisting paint.
Thermol-Colloids: Continental Asbestos & Refg. Corp., N.Y.C., boiler water conditioner.
Thermolier: Grinnell Co. Inc., Providence, R. I., unit heaters.
Thermoline: Pittsburgh Thermoline Co., Pittsburgh, Pa., propane gas.

THERMOMETERS BIMETALLIC 699
CONTROLLING 699
DIAL 699
DIFFERENTIAL 699
INDICATING 699
INDUSTRIAL 699
LABORATORY 699
RECORDING 699
WET AND DRY BULB 699
Thermomill: Hardinge Co. Inc., York, Pa., comb. dryer, pulverizer & classifier.
Thermo-Phos: Permanente Prods. Co., Oakland, Calif., fertilizers, phosphate.
Thermo-Quench: Park Chemical Co., Detroit, Mich., salt bath.
Thermospeed: Taylor Instrument Co., Rochester, N. Y., temp. conducting sleeve.
Thermotite: Lowe Brothers Co., Dayton, O., hot lacquer.
Thermoverter: Bristol Co., Waterbury, Conn., thermal converter.
Thiamin Hydrochloride see Vitamin B_1
Thiazine: General Dyestuff Corp., N.Y.C., direct dye.
Thiazol: General Dyestuff Corp., N.Y.C., direct dye.
THICKENERS 699
LATEX 593
THICKENING AGENTS 593
Thickote: Du Pont Co., Finishes Div., Wilmington, Del., top dressing.
THINNERS, PAINT, VARNISH, LACQUER 435
Thinnit: Cabell Chemical Co., Huntington, W. Va., thinners.
Thinteen: James Bute Co., Houston, Texas, paint thinner.
Thiocarbamide see Thiourea
THIOCARBANILIDE 435
Thiocyanate see Aluminum Sulfocyanid
THIODIETHYLENE GLYCOL 435
Thiodiglycol see Thiodiethylene
Thiodiphenylamine see Phenolthiazine
Thiofluvine: General Dyestuff Corp., N.Y.C., basic dye.
Thionex: Du Pont Co., Rubber Chems. Div., Wilmington, Del., rubber accelerator.
THIOGLYCEROL 435
Thionine: General Dyestuff Corp., N. Y. C basic dye.
THIONYL CHLORIDE 435
THIOPHENE 435
2-THIOPHENE ALDERHYDE 435
Thiophos: American Cyanamid Co., New York, N. Y., parathion.
Thiophosphoric Anhydride see Phosphorus Pentasulfide
THIOSEMICARBAZIDE 435
Thiotax: Monsanto Chem. Co., Akron, O., mercaptobenzothiazol.
THIOUREA 435
Thiovanic Acid: Evans Chemetics, N.Y.C., thioglycolic acid.
Thiovanol: Evans Chemetics, N.Y.C., thioglycerol.
Thistle Saffron see Saffron American
Thompsonized: H. I. Thompson Co., Los Angeles, Calif., insulating blankets.
Thor: The Borden Co., Chem. Div., N. Y. C., resins.
THORIUM (the Metal) 436
NITRATE 436
OXIDE 436
Thorium X: Fleischman, Burd & Co., Inc., N.Y.C., radio-active medicine.
Thorothrast: Heyden Chem. Corp., N. Y. C., colloidal thorium dioxide.
Three Cheers: Industrial Chem. Prods. Co., Phila., Pa., cleanser detergent.
Three Elephant: American Potash & Chemical Corp., N.Y.C., borax & boric acid.
Three Star: International Wax Refg Corp., B'klyn, N.Y., carnauba substitute.
Throttirol: Wheelco Instruments Co., Chicago, Ill., valve positioner.
Thrustere: Pennsylvania Pump & Compressor Co., Easton, Pa., centrifugal pumps.
Thur Oil: Gilbreath Chem. Co., San Fran., Calif., paint oil.
Thurston & Braidich: M. O. Grove & Co., San Fran., Calif., gums.
Thus see Gum Thus
Thym-Co: C-A Wood Preserver Co., St. Louis, Mo., aluminum paint.
Thyme Camphor see Thymol
Thymic Acid see Thymol
Thymodin see Thymol Iodide
Thymiode see Thymol Iodide
Thymiodal see Thymol Iodide
Thymiodol see Thymol Iodide
THYMOL 436
BLUE 436
IODIDE 436
PHTHALEIN 436
Thymol-sulfonphthalein see Thymol Blue
Thymotol see Thymol Iodide
Tibetene: Givaudan-Delawanna, Inc., N. Y. C., musk.
Tick Tox: Agricultural Chems. Co., Phoenix, Arizona, tick controlling spray.
Ticon: Titanium Alloy Mfg. Div., Nat'l Lead Co., N.Y.C., dielectric titanates.
Tideco: Wm. S. Gray & Co., N.Y.C.
Tiet: Reardon Industries Inc., Cincinnati, O., insulation coating.
Tifacides: Chemical Insecticide Corp., Brooklyn, N. Y., insecticides.
Tiff see Barium Sulfate
Tiger Brand: W. W. Lawrence & Co., Pittsburgh, Pa., paint & varnish.
Tilene XX: U. S. Sanitary Specialties Corp., Chicago, Ill., liquid floor cleaner.
Tileset: Atlas Mineral Prods. Co., Mertztown, Pa., cement.
Til Oil see Oil Sesame
Tilon: Ever-Plastics Corp., N. Y. C., plastic cement.
Timbertox: Wood Treating Chem. Co., St. Louis, Mo., wood preservative.
Timecutter: Timesaver Prods. Co., Chicago, Ill., abrasive lapping compd.
TIMERS, ELECTRIC 699
PNEUMATIC & ELECTRONIC 699
Tin Anhydride see Tin Peroxide
Anhydride see Tin Peroxide
Ash see Tin Peroxide
Bichloride see Tin Chloride
Bichloride Solution see Tin Tetrachloride
CHLORIDE 436
Crystals see Tin Chloride
Dichloride see Tin Chloride
Dioxide see Tin Peroxide
FLUOBORATE 436

TIN (cont'd)

Labeling Pastes see Pastes Labeling
NAPHTHENATE ... 437
OLEATE ... 437
OXALATE (Stannous) ... 437
OXIDE ... 437
Oxymuriate see Tin Tetrachloride
POWDER ... 437
PROTEINATE ... 437
Protochloride see Tin Chloride
Protoxide see Tin Oxide
Salt see Tin Tetrachlorides also Tin Chloride
SULFATE ... 437
TETRACHLORIDE ... 437

Tincal see Sodium Borate
Tinkal see Sodium Borate
Tinol: American Solder & Flux Co., Phila., Pa., solder.
Tin-O-Lin: Calbar Paint & Varnish Co., Phila., Pa., roof paint.
Tip-Top: Thompson Chem. Co., Pawtucket, R. I., anti-freeze.
Ti-Pure: Du Pont Co., Pigments Dept., Wilmington, Del., titanium dioxide.
Tire: Stauffer Chem. Co., N. Y. C., rubbermakers' sulphur.
Tire Cements see Cements Rubber
Tissuemat: Fisher Scientific Co., Pittsburgh, Pa., wax for histology.
Titafix: Titan Chemical Products, Inc., Jersey City, N. J., fixing agent.
Titagene: Titan Chemical Prod., Inc., Jersey City, N. J., scour.
Titahterge: Titan Chemical Prod., Inc., Jersey City, N. J., detergent.
Titalins: Titan Chemical Prod., Inc., Jersey City, N. J., softener.
Titamines: Titan Chemical Prod., Inc., Jersey City, N. J., surface active agts.
Titan: Hercules Powder Co., Wilmington, Del., dynamite.
Titanex: National Lead Co., N. Y. C., paint.
Titania see Titanium Dioxide
Titanic Acid Anhydride see Titanium Dioxide
Chloride see Titanium Tetrachloride
TITANIUM (the metal) ... 437
CYANONITRIDE ... 437
DIOXIDE ... 437
HYDRIDE ... 438
Peroxide see Titanium Oxide
Pigments see Pigments Titanium
POTASSIUM OXALATE ... 438
TETRACHLORIDE ... 438
White see Titanium Dioxide
Titanoles: Titan Chemical Prod., Inc., Jersey City, N. J., detergents.
Titanolith: The Chem. and Pigment Co., Oakland, Calif., titanated lithopone.
Titantex: Titan Chemical Prod., Inc., Jersey City, N. J., soaps.
TITANYL SULFATE ... 438
Titaproof: Titan Chemical Prod., Inc., Jersey City, N. J., waterproofing agents.
Titarsolve: Titan Chemical Prod., Inc., Jersey City, N. J., paint remover.
Titasoroop: Titan Chemical Prod., Inc., Jersey City, N. J., for text. finisher.
Titasoles: Titan Chemical Prod. Inc., Jersey City, N. J., scouring agents.
Titodines: Titan Chemical Prod., Inc., Jersey City, N. J., wetting agents.
TITRATOR, AUTOMATIC ... 699
Titrilog: Consolidated Engr. Corp., Pasadena, Calif., titrimeter.
Titrimeter: Fisher Scientific Co., Pittsburgh, Pa., titrations apparntus.
Titronic: Milton Roy Co., Chestnut Hill, Pa., pumps.
Tix: Mitchell Fels, Phila., Pa., soap powders.
Tnertex: Foundary Service Inc., N.Y.C., for magnesium castings.
TOBACCO DUST ... 438
Tobaccromes: Ph. Chaleyer, Inc., N. Y. C., flavors.
Tobias Acid see Acid Tobias
Tocar: Esso Standard Oil Co., N. Y. C., adhesive lime base.
a-Tocopheral see Vitamins
To-Det Spray: Parsons Chemical Wks., Grand Ledge, Mich., cattle spray.
Toel Oil see Oil Tall
TOLIDINE ... 438
o-TOLIDINE DIHYDROCHLORIDE ... 438
Toll Oil see Oil Tall
o-Tolualdehyde see Phenyl Acetaldehyde
p-Toluamide see Phenylacetamide
Toluazotoluidine see Amino-Azotoluene
Toluene see Toluol
p-Toluene Sulfo Ethyl Ether see Ethyl-p-Toluene Sulfonate
p-TOLUENEDIAMINE ... 438
p-TOLUENESULFONAMIDE ... 438
p-TOLUENESULFONCHLORIDE ... 438
o-TOLUIDINE ... 438
p-TOLUIDINE ... 438
TOLUIDINES MIXED ... 438
TOLUOL ... 438
Toluylbenzoic Acid see Acid Para Toluylbenzoic
TOLYL ALDEHYDE ... 439
m-TOLYL DIETHANOLAMINE ... 439
m-TOLYLENE DIAMINE ... 439
Tomato ßx: Thompson Horticultural Chems. Corp., Los Angeles, Calif., tomato bloom set.
Tonalac: Kepec Chem Corp., Milwaukee, Wis., finishes solutions.
TONERS, ALKALI ... 439
ALKALI BLUE ... 439
LITHOGRAPHIC ... 594
METHYL VIOLET ... 439
METHYL VIOLET PERMANENT ... 439
PAINT ... 594
PHOTOGRAPHIC ... 594
RED ... 439
Tonka-Bean Camphor see Coumarin
Tonkene: Du Pont Co., Organic Chems. Dept., Wilmington, perfume chem.
Tonsil: Bingham & Co., Inc., N. Y. C., bleaching earth.
Tonsil: L. A. Salomon & Bro., N.Y.C., activated clay.
Topsall: Globe Paint Co., Inc., paints.
Top top: Thompson Chem. Co., Pawtucket, R. I., automotive chems.
Torch: L. Martin Co., Inc., N. Y. C., black.
TORCHES ... 699
Torchweld: National Cylinder Gas Co., Chicago, Ill., welding & cutting apparatus.
Torex: Inertol Co., Inc., Newark, N.J., waterproofing enamel.
Tornesit: Perry-Austen Mfg. Co., Grasmere, S. I., N.Y., paint.
Torridex: Warwick Chem. Co., Long Is. City, N. Y., text. finishing agt.
Torsiograph: Commercial Research Lab. Inc., Detroit, Mich., vibration study equipt.
Torsiometer: Commercial Research Lab. Inc., Detroit, Mich., vibration study equipt.
Totalume: Wilbur & Williams Co., Boston, Mass., rust inhibitive aluminum.
Totanin: Enco Chemical Corp., N. Y. C., spruce extract.
Totrust: Wilbur & Williams Co., Boston, rust inhibitive paint.
TOUGHENING AGENTS RUBBER ... 594
TOWERS ... 699
ABSORPTION ... 699
ACID ... 700
BUBBLE ... 700
COOLING ... 700
EVAPORATOR ... 700
FRACTIONATING ... 700
SCRUBBING ... 700
Toxakil: Niagara Chem. Div., Food Machinery & Chem. Corp., N.Y.C., toxaphene.
Tox-all: Barton Chem. Co., Chicago, Ill., insecticide.
"Toxapheae": Hercules Powder Co., Wilmington, Del., toxicant.
Toxaphene: Naugatuck Chem. Div. U. S. Rubber Co., N. Y. C., insecticide.
Toxaphene: Wallach-Graeer Export Corp., N. Y. C., insecticide.
Toxi: Chemical Mfg. Sales Co., Chicago, Ill., bug-killer.
Toxic Gas Indicators see Indicators Toxic Gas
Cavity Fillers see Fillers Tree Cavity
Wax see Wax Chinese
Toxichlor: Thompson-Hayward Chem. Co., Kansas City, Mo., chlordane insecticide.
Toxilic Anhydride see Maleic Anhydride
Trac-Full Wheel: Beaumont Birch Co., Phila., Pa., traction wheel.
TRACTORS INDUSTRIAL ... 700
Tradox: Esso Standard Oil Co., N. Y. C., black, adhesive, water-resistant greases.
Traffic: S. C. Johnson & Son, Inc., Racine, Wis., waxes.
Tragacanth see Gum Tragacanth
Tragasol see Gum Locust Bean
Tra-Min: Whitmoyer Laboratories, Myerstown, Pa., mineral.
Train Oil see Oil Whale
Transaire: Taylor Instrument Co., Rochester, N. Y., transmitters.
Transeal: Harrop Chem. Co., Jersey City, N. J., masonry waterproofing.
Transet: Taylor Instrument Co., Rochester, N. Y., transmission systems.
TRANSFORMER COMPOUNDS ... 594
TRANSFORMERS ... 700
Transite: Johns-Manville, N. Y. C., pipe.
TRANSMISSIONS, VARIABLE SPEED ... 700
Transote: Reilly Tar & Chem. Corp., Indianapolis, Ind., wood preservative.
Transparent Ceramic Colors see Colors Ceramic Resistant
Chromium Oxide see Guignet's Green
Transphalt: Penna. Industrial Chemical Co., Clairton, Pa., polymers of condensed aromatics.
Transplant: Thompson Horticultural Chems. Corp., Los Angeles, Calif., hormone treatment.
TRAPS, ACID ... 700
AIR ... 700
OIL ... 700
STEAM ... 700
Trastan: Arthur C. Trask Co., Chicago, Ill., tanning extracts.
TRAYS, DRYING AND EVAPORATING ... 700
Treco: Tridennick Paint Mfg. Co., Meriden, Conn., paints, enamels, etc.
Tred-Fast: Penetone Co., Tenafly, N. J., wax.
Tree Wax see Wax Chinese
Treet-O-Control: Proportioneers Inc., Providence, R.I., proportioning equipt.
Treet-O-Unit: Proportioneers Inc., Providence, R.I., pumps.
Trem: Griffin Chemical Co., San Fran., Calif., emulsifiers.
Trend: Cole & DeGraf, San Francisco, Calif., detergent.
Trend: Purex Corp., South Gate, Calif., syn. detergent.
Trex 40: Griffin Chemical Co., San Fran., Calif., emulsifier.
Tri-6: Thompson-Hayward Chem. Co., Kansas City, Mo., insecticides.
TRIACETIN ... 439
Triad: Detrex Corp., Detroit, Mich., degreasing solvent.
TRIALUMINUM PHOSPHATE ... 439
Triamine: Haviland Prods. Co., Grand Rapids, Mich., disinfectant.
TRIAMINOBENZENE TRIHYDROCHLORIDE ... 439
TRIAMINOTOLUENE TRIHYDROCHLORIDE ... 439
Triammonium Phosphate see Ammonium Phosphate Tri
TRIAMYLAMINE ... 439
TRI
Basic Calcium Phosphate see Calcium Phosphate Tribasic
BROMOMETHANE see also Bromoform ... 439
2,4,6-BROMPHENOL ... 439
Bromophenylbismuth see Bismuth Tribromophenate
BUTOXY ETHYL PHOSPHATE ... 440
BUTYL AMINE ... 440
Butyl Borate see Butyl Borate
BUTYL "CELLOSOLVE" PHOSPHATE ... 440
BUTYL PHOSPHATE ... 440
Calcic Phosphate see Calcium Phosphate Tribasic
Calcium Orthoarsenate see Calcium Arsenate
Calcium Orthophosphate see Calcium Phosphate Tribasic
Calcium Phosphate see Calcium Phosphate Tribasic
Chloracetic Acid see Acid Chloracetic Tri
CHLORBENZENE: 1:2:4 ... 440
Triangle: Stauffer Chem. Co., N. Y. C., sulphur.
Triangle: United Carbon Co., Inc., Charleston, W. Va., carbon black.
Triangle Brand: Sterling Chems. Inc., N. Y. C., insecticides fungicides.
Tri-B-Pack Carb: C. G. Buchanan Chem. Co., Cincinnati, O., for carburizing.
Tricalcic Phosphate see Calcium Phosphate Tribasic
Tricalcium Orthophosphate see Calcium Phosphate Tribasic
Tricalcium Phosphate see Calcium Phosphate Tribasic
TRICHLORODIPHENYL OXIDE ... 440
1,1,1-TRICHLOROETHANE ... 440
TRICHLORETHYLENE ... 440
1,2,2-Trichlorethylene see Trichlorethylene
TRICHLOROFLUOROMETHANE ... 440
TRI
Chloromethane see Chloroform
CHLOROMONOFLUOROMETHANE ... 441
Chloronitromethane see Chloropicrin

2-4-5 TRICHLOROPHENOL 441
TRICHLOROPROPANE 441
TRI
Chlorpropene see Allyl Chloride
CHLOROTRIFLUOROETHANE 441
CRESYL PHOSPHATE 441
ETHANOLAMINE 441
ETHANOLAMINE STEARATE 441
ETHYLAMINE 441
Ethyl Borate see Ethyl Borate
ETHYL o-FORMATE 441
ETHYL PHOSPHATE 441
ETHYLENE GLYCOL 442
Ethylene Glycol Methyl Ether Acetate see Methoxytriglycol Acetate
ETHYLENE TETRAMINE 442
Trichloropropene see Allylchloride
Triclene: Du Pont Co., Electro Chems. Dept., Wilmington, trichlorethylene
Tricon: Anchor Hocking Glass Corp., Lancaster, Ohio, screw caps.
Triconcal: Amer. Fluresit Co., Cincinnati, O., moistureproofs concrete.
Tri-Cote: Frederic B Stevens Inc., Detroit, Mich., foundry facing.
Tridee: Sterwin Chems. Inc., N. Y. C., vitamin Ds.
Trident: Neptune Meter Co., N. Y. C., meters-liquid.
Triethoxyboron see Ethyl Borate
Triethoxy Methane see Triethyl-o-Formate
Tri-Flo: Cherry-Burrell Corp., Chicago, Ill., surface coolers.
TRIFLUOROPENTACHLOROPROPANE 442
a-Trifluorotoluene see Benzotrifluoride
TRIFLUOROTRICHLOROPROPANE 442
Triformol see Paraformaldehyde
TRIGLYCOL DICHLORIDE 442
TRI
Hydroxy Benzene see Acid Pyrogallic
Hydroxyethyl Amine see Triethanolamine
ISOBUTYLENE 442
ISO PROPANOLAMINE 442
ISOPROPYLBENZENE 442
Ketopurine see Acid Uric
Magnesium Phosphate see Magnesium Phosphate
METHYLAMINE 442
Methyl-Aminobenzene 1:2:4:5 see Cumidine
METHYLCYCLOHEXANOL 442
Methyl Carbinol see Alcohol Butyl Tertiary
METHYLDIHYDROQUINOLINE POLYMER 442
METHYL (2,6,8) NONANONE-4 442
Methylene see Cyclopropane
METHYLENE BROMIDE 442
METHYLENE CHLOROBROMIDE 442
METHYLENE GLYCOL 442
Methylmethane see Isobutane
METHYLOLETHANE 442
METHYLOLPROPANE 442
Nitrophenol see Acid Picric
NITROTOLUENE 442
TRIOXANE 442
Oxymethylene see Paraformaldehyde
Oxyphenol see Phloroglucinol
Palmitic Acid Ester of Glycerin see Palmitin
Palmitin see Palmitin
PENTAERYTHRITOL 442
PHENYL PHOSPHATE 442
PHENYL PHOSPHITE 443
Sodium Orthophosphate see Sodium Phosphate Trisodium
Sodium Phosphate see Sodium Phosphate Trisodium
Trihydroxybenzene see Acid Pyrogallic
Triiodomethane see Iodoform
Triisopropylidene Mannitol see Mannitol Triacetonate
Trikotopurine see Acid Uric
Trimethylene Diiodide see 1,3-Diiodopropane
Trimethylglycine Hydrochloride see Betaine Hydrochloride
Trimount: Samuel Cabot, Inc., Boston, lampblack.
Trinidad: Barber Co., Phila., asphalt.
Trinidad Pitch see Asphaltum
Trinitrocellulose see Pyroxylin Solutions
Trinitrophenol see Acid Picric
Trioxin see Paraformaldehyde
Trioxyphenol see Phloroglucinol
Trioxytrimethylphenylmethane see Acid Rosolic
Tripentek: Hexden Chem. Corp., N. Y. C., tripentaerythritol.
Triple: Parker Appliance Co., Cleveland, O., tube fitting.
Triple A: Quigley Co., Inc., N. Y. C., coatings.
Triple S: Snowden Chemical Co., Modesto, Calif., methyl bromide.
Triplexd Solvent Hose: Metal Hose & Tubing Co., Dover, N.J., for petroleum solvents.
Triple-Lok: Parker Appliance Co., Cleveland, O., flare tube fitting.
TRIPOLI 443
Powder see Diatomaceous Earth
Tripolite see Diatomaceous Earth
TRIPPLERS, BELT CONVEYOR 700
TRIPROPYLENE GLYCOL 443
TRIS (HYDROXYMETHYL) AMINOMETHANE 443
TRIS (HYDROXYMETHYL) NITROMETHANE 443
Trisol: Eaton Chemical & Dyestuff Co., Detroit, Mich., pre-spotter.
Tristearin see Stearine
Tri-Sure: Amer. Flange & Mfg. Co., N.Y.C., steel drum closures.
Triton: Rohm & Haas Co., Phila., Pa., wetting agts.
Trizyme: Seaboard Industries, Paterson, N.J., enzymes.
TROLLEYS 700
Tromete: Westvaco Chem. Corp., N. Y. C., household detergent.
Tromex: Westvaco Chem. Corp., N. Y. C., degreasing solvent.
Trona: Amer. Potash & Chem. Corp., N.Y.C., potash chlorides.
Tropelite: Tropical Paint & Oil Co., Cleveland, O., chem. resist coating.
Tropaeolin D see Methyl Orange
Trophy: Pacific Clay Products, Los Angeles, Calif., wall tile.
Tropical: Marx, Max Color & Chem. Co., Irvington, N. J., molybdated colors.
Tropic-Zone: Carnegie Chemical Mfg. Co., Los Angeles, Calif., insecticides.
Trubond: Concrete Specification Surfacing Co., N. Y. C., roughening concrete.
Truckmaster: Toledo Scale Co., Toledo, O., toledo truck scale.
TRUCKS, ELEVATING 700
HAND LIFT 700
INDUSTRIAL 700
TRUCKS (cont'd)
LIFT 700
POWER 700
Truckloader: Clark Equipt. Co., Battle Creek, Mich., fork-lift trucks.
Tractractors: Clark Equipt. Co., Battle Creek, Mich., bulk handling trucks.
True Salt see Caffeine Citrated
Truline: Morse Brothers Machinery Co., Denver, Colo., classifiers.
Tru-gas: Virginian Gas & Oil Co., Charleston, W. Va., petroleum gas fuels.
Trukon: Hart Prods. Corp., N. Y. C., water repellants.
Trulevel: Jerguson Gage & Valve Co., Somerville, Mass., level gage.
Truline: Hercules Powder Co., Wilmington, Del., dry core binder.
Trump: Arthur S. Hoyt Co., Inc., N. Y. C., paste.
Truscale: Jerguson Gage & Valve Co., Somerville, Mass., level gage.
Tru-Tint: Du Pont Co, Finishes Div., Wilmington, Del., pigments.
Try-Me: McCann Chemical Co., Louisville, Ky., washing powders.
TRYPTOPHANE see also Acids, Amino 443
TRYPTOPHANE L,-Natural 443
Tuads: R. T. Vanderbilt Co. Inc., N.Y.C., rubber accelerator.
Tubacide: Miller Chem. & Fert. Corp., Baltimore, Md., rotenone.
Tubatoxin see Rotenone
Tube: Stauffer Chem. Co., N. Y. C., rubbermakers' sulphur.
Tube Cements see Cements Rubber
TUBE CLEANERS 700
TUBE CLIPS, COLLAPSIBLE 700
TUBE FILLING AND CLOSING MACHINES 700
Tubejet: C. H. Wheeler Mfg. Co., Philadelphia, Pa., ejectors.
Tuberosia: Givaudan-Delawanna, Inc., N. Y. C., perfume specialty.
TUBES, COLLAPSIBLE 700
HEAT EXCHANGER 702
PYROMETER 702
VENTURI 702
TUBING, CARBON 702
FINNED 702
GLASS 702
GLASS, PRECISION BORE 702
HARD RUBBER 702
NICKEL ALLOY 702
PLASTIC 702
SARAN 702
SEAMLESS 702
STAINLESS 702
STONEWARE 702
Tub-Tite: American Fluresit Co., Inc., Cincinnati, Ohio, plastic caulking compound.
Tufa see Volcanic Ash
Tufcote: Du Pont Co., Finishes Div., Wilmington, Del., varnish stain.
Tufdense: Tuferete Co., Des Moines, Iowa, concrete hardener.
Tufen-bryte: U. S. Sanitary Specialties Corp., Chicago, Ill., floor sealfinish.
Tuff see Volcanic Ash
Tuf-Lustre: E. L. Bruce Co., Memphis, Tenn., wax.
Tuf-On: Brooklyn Varnish Mfg. Co., Inc., B'klyn, N. Y., fungicide varnish.
Tufor: Naugatuck Chem. Div. U. S. Rubber Co., N. Y. C., herbicide.
Tufseal: Tuferete Co., Des Moines, Iowa, waterproofing outside of building.
Tuftite: Tuferete Co., Des Moines, Iowa, waterproofing for walls, etc.
Tuftop: Tuferete Co., Des Moines, Ia., concrete floor surface treatment.
Tumbling Lacquers see Lacquers Tumbling
Tung Oil see Oil China Wood
Tungalite: Amer. Brake Shoe Co., Chicago Heights, Ill., electrodes.
Tungstated Color Lakes see Lakes Color Tungsten
TUNGSTEN (the metal) 443
TUNGSTEN (Ore) 443
OXIDE 443
Tuno Gum see Gum Chicle
TURBINES STEAM 702
Turbo: General Amer. Transportation Corp., Chicago, Ill., mixers.
Turbulaire: Western Precipitation Corp., Los Angeles, Calif., spray.
Turgum S: J. M. Huber Corp., N.Y.C., softener (rubber).
Turkey Galls see Nutgalls
Red see Iron Oxide Red and Madder
Red Oil see Oils Sulfonated and Oil Turkey Red
TURMERIC 443
TURN TABLES 702
Turnbull's Blue see Prussian Blue
Turpenol: Stand. Chem. Prods., Inc., Hoboken, N.J., kier oil.
TURPENTINE GUM 443
SPIRITS 444
STEAM DISTILLED WOOD 444
SUBSTITUTES see also Spirits Mineral 444
SULFATE WOOD 444
VENICE 444
Turpol: Irvington Varnish & Insulator Co., Irvington, N. J., resins and gums.
Tuscan Red see Iron Oxide Red
Tutch-Upp Brand: Dryburgh & Sons, Inc., Milwaukee, Wis., furniture polish.
Tutia see Zinc Carbonate
Tuway: Wright-Austin Co., Detroit, Mich., strainers.
Twecotan: Amer. Cyanamid Co., N. Y. C., tanning extracts.
Tween: Atlas Powder Co., Wilmington, Del., dispersing agents.
Twin Spiral: Prater Pulverizer Co., Chicago, Ill., mixer.
Twinbull's Blue see Prussian Blue
Twin-Weld: Hewitt-Robins Inc., Buffalo, N. Y., oxyacetylene hose.
Twistex: The Cambridge Wire Cloth Co., Cambridge, Md., wire belting.
Twitchell: Emery Industries, Inc., Cincinnati, O., textile oils.
Two-in-one: Bemis Bro. Bag Co., St. Louis, Mo., envelope mailing bags.
Two-four-D see Acid, 2,4-Dichlorophenoxyacetic
"Two-sixty-Two": E I du Pont de Nemours & Co., Ammonia Dept., Wilmington, Del., feed compound.
Tycon: U. S. Stoneware Co., N. Y. C.
TY-D: Compo Chemical Co., Inc., Boston, Mass., hand cream.
Tygon: U. S. Stoneware Co., N. Y. C., paints.
TYROSINE 444
TYROSINE-1, Natural 444
l-Tyrosine see Tyrosine
TYROTHRICIN 444
Tysonite: R. T. Vanderbilt Co. Inc., N.Y.C., plastic-osone resistant.
Tyvec: Du Pont de Nemours, Ammonia Dept., Wilmington, Del., textile size.

U

U. S. S.: Carnegie-Ill. Steel Corp., Pittsburgh, Pa., stainless steel.
Ubagrip: Union Bay State Chem. Co., Cambridge, Mass., rubber cement.
Ubapol: Union Bay State Chem. Co., Cambridge, Mass., rubber cement.
Ubatol: Union Bay State Chem. Co. Inc., Cambridge, Mass., polystyrene dispersions.
Uclon: United Chromium Co., N. Y. C., organic coatings.
Ucon: Carbide & Carbon Chems. Corp., N. Y. C., fluids.
Udnee: United Finish Co., Peabody, Mass., finishes.
Uformite: Rohm & Haas Co., Phila., Pa., resins.
Ugasco: United States Gasket Co., Camden, N. J., gaskets.
Uintahite see Gilsonite
Uintaite see Gilsonite
Ulmin Brown see Van Dyke Brown
Ultex: C. P. Hall Co., Akron, O., accelerator.
Ultra Ray: Edward I. Petow & Sons, Hyannis, Mass., pearl essence.
Ultramin: Ultra Chemical Works, Inc., Paterson, N. J., softeners.
Ultramarine see Cobalt Blue
ULTRAMARINE BLUE 446
Yellow see Barium Chromate
Ultramicro: Microchemical Specialties Co., Berkeley, Calif., pipets.
Ultranato #1: Atlantic Refining Co., Phila., Pa., sodium salt.
Ultrapone: Ultra Chemical Works, Inc., Paterson, N. J., assistants.
Ultrasol: Monsanto Chem. Co., Boston, Mass., coating.
Ultratone: Mallinckrodt Chem. Works, St. Louis, Mo., developer.
Ultrawet: Atlantic Refining Co., Phila., Pa., syn. detergent.
Ultrax: The Atlantic Refining Co., Phila., Pa., paraffin.
Ultron: Monsanto Chem. Co., Plastics Div., Springfield, Mass., vinyl chloride.
Ultrox 10: Atlantic Refining Co., Phila., Pa., paraffin.
Umbellic Acid see Acid Anisic
UMBERS 445
Umbrather: Heyden Chem. Corp., N. Y. C., colloidal.
Unachrome: United Aniline Co., Boston, chrome dyes.
n-UNDECYL BROMIDE 445
UNDECYL STEARATE 445
Underdry: Beaumont Birch Co., Phila., Pa., ash gates.
Underglaze Colors see Colors Underglaze also Colors Ceramic
Undercoal: Minnesota Mining & Mfg. Co., Detroit, Mich., undercoating.
Unichrome: United Chromium Co., N. Y. C., lacquers & synthetics.
Unicel: Du Pont Co., Rubber Chems. Div., Wilmington, Del., rubber chem.
Unico: Unico United Industrial & Chem. Corp., N.Y.C., zinc oxide.
Uni-Fill: Advance Paint Co., Indianapolis, Ind., filler.
"Uniflow": Electric Hotpack Co., Inc., Phila., Pa., ovens.
Uni-Hard: Heatbath Corp., Springfield, Mass., neutral salt bath.
Uni-lak: Kopec Chem Corp., Milwaukee, Wis., lacquer coating.
Uni-matic: Delaval Separator Co., N.Y.C., oil purifiers.
Unionmelt: Linde Air Prods. Co., N.Y.C., welding equipt.
Unipar: Parker Appliance Co., Cleveland, O., thread sealing compound.
Unique: Robinson Mfg. Co., N. Y. C., processing equipt.
Uni-Resin: Kopec Chem Corp., Milwaukee, Wis., resin emulsion.
Unisize: Nopco Chem. Co., Harrison, N. J., warp size.
Unisol: Chemeo Prod. Co. Inc., Chicago, Ill., enamel stripper.
Unitair: Joy Mfg. Co., Pittsburgh, Pa., air compressor.
Unitact: Bristol Co., Waterbury, Conn., relay.
Unitane: Amer. Cyanamid Co., N. Y. C., titanium pigments.
Unitex: Commonwealth Color & Chemical Co., N. Y. C., detergent.
Unitex: Universal Paint & Varnish Co., Cleveland, Ohio, rust remover.
Unitexel: Ultra Chemical Works, Inc., Paterson, N. J., finishes.
Uni-Top: Allis-Chalmers, Milwaukee, Wisc., outdoor circuit breakers.
Univat: Cherry-Burrell Corp., Chicago, Ill., heater, cooler, mixer.
Universal: F. J. Heap & Son, Boston, Mass., mucilage.
Univis: Esso Standard Oil Co., N. Y. C., hydraulic oils.
Univolt: Esso Standard Oil Co., N. Y. C., oils.
UNLOADERS CAR 702
Unox: Carbide & Carbon Chems. Corp., N. Y. C., penetrant.
Un-X-Ld: Fond Chem. Co., Los Angeles, Calif., carpet cleaner.
Uplifter: Revolvator Co., North Bergen, N.J., portable elevators.
URACIL 445
"Uramon": E I du Pont de Nemours & Co., Ammonia Dept., Wilmington, Del., fertiliser comp.
Uraqoga see Ipecac Root
Uranic Oxide see Uranium Oxide
URANINE 445
Uranium Dioxide see Uranium Oxide
URANIUM NITRATE 445
OXIDE 445
Yellow see Sodium Uranate
Uranyl Nitrate see Uranium Nitrate
UREA 445
PEROXIDE 446
Plastics see Plastics Urea
URETHAN see also Ethyl Carbamate 446
Urner's Liquid see Acid Dichloracetic
Urokon: Mallinckrodt Chem. Works, St. Louis, Mo., for X-Ray diagnosis.
Urotropin see Hexamethylenetetramine
Usamine C: U. S. Sanitary Specialties Corp., Chicago, Ill., odorless disinfectant.
Usco: Gross Drug Co., Harrisburg, Pa., sanitary chemicals.
Usaco: U. S. Stoneware Co., N. Y. C., acid-proof brick.
Utah: Allis-Chalmers, Milwaukee, Wisc., vibrating feeders.
"Utah": Republic Metals Co., B'klyn, N.Y., chemical lead.
Utilastic: Paisley Prods., Inc., Chicago, Ill
Utilitrue: Clark Equipt. Co., Battle Creek, Mich., fork-lift truck.
Utilivar: McDougall-Butler Co., Inc., Buffalo, N. Y., aluminum paint.
Uverite: Harshaw Chem. Co., Cleveland, O., opacifier.
Uversol: Harshaw Chem. Co., Cleveland, O. drier.

V

V-26: Advance Solvents & Chem. Corp., N.Y., extender.
V-90: Victor Chem. Wks., Chicago, Ill., acid ingredient.
V-200: The Cellcote Co., Cleveland, O., coating.
V-I-N: Advance Solvents & Chem. Corp., N.Y., stabilizer.
V.B.: Windsor Wax Co., Inc., Hoboken, N. J., cleaner & wax.
VHPF (VIP): Miller Chem. & Fert. Corp., Baltimore, Md., soluble fertiliser.
V.M. & P. Naphtha: Esso Standard Oil Co., N. Y. C., naphtha.
V-Meth-L: Virginia Smelting Co., W. Norfolk, Va., refrigeration.
VPI: Shell Chem. Corp., N. Y. C., inhibitor.
VRO: E. F. Drew & Co., Inc., N. Y. C., fatty acids.
Vaccine: Sherman Labs., Detroit, Mich., injectable.
Vacorder: F. J. Stokes Machine Co., Phila., Pa.
Vac-Veyor: Beaumont Birch Co., Philadelphia, Pa., handling equipt.
Valo Greens: Imperial Paper & Color Corp., Glens Falls, N. Y., chrome greens.
Valencia Pumice: Whittaker, Clark & Daniels, Inc., N. Y. C., American true pumice.
Valeric Ether see Ethyl Valerate
Valesco: Esso Standard Oil Co., N. Y. C., high viscosity straight mineral oil.
Valine see Acids Amino
dl-VALINE 446
Valmora: Sachs Mfg. Co., Pittsburgh, Pa., isopropyl rubbing alcohol.
VALONIA 446
Valve Flex: Flexoid Prods. Inc., Boston, Mass., cleaning steam valves.
VALVES 702
ACID RESISTING 702
ALLOY STEEL 702
ALUMINUM ALLOY 702
AUTOMATIC 702
BACK PRESSURE 702
BLOWOFF 702
BUTTERFLY 702
BYPASS 702
CHECK 702
CONTROL ELECTRIC 704
CONTROL HYDRAULIC 704
CORROSION RESISTANT 704
DIAPHRAGM 704
DIAPHRAGM CONTROL 704
ELECTRIC 704
FLOAT 704
GAS REVERSING 704
GATE 704
GATE, ROTARY 704
GLASS 704
GLOBE 704
HARD RUBBER 704
HIGH PRESSURE (Cylinders) 704
JACKETED 704
LEVER OPERATED 704
LUBRICATED PLUG 704
MOTOR OPERATED 704
NEEDLE 704
PACKLESS 704
PILOT 704
PLUG 704
PORCELAIN 704
QUICK OPENING 704
RADIATOR 704
REDUCING 704
REGULATING 704
RELIEF 704
RUBBER LINED 704
SAFETY 706
SANITARY 706
SOLENOID 706
STAINLESS 706
STEAM JACKETED 706
STEEL 706
STEEL, STAINLESS 706
STONEWARE 706
Y STYLE 706
Valvoline: Sunnyside Oil Co., Chicago, Ill., penna motor oil.
Valvseal: Richardson Co., Melrose Park, Ill., battery covers.
Vanadella: Givaudan Flavors Inc., N. Y. C., vanilla complex.
Vanadic Acid Anhydride see Vanadium Pentoxide
Vanadiset: Wilson Carbon Co., N.Y.C., plastic resin.
VANADIUM (the Metal) 446
CHLORIDE 446
PENTOXIDE 446
SULFATE 446
Vanadyl Sulfate see Vanadium Sulfate
Vancide: R. T. Vanderbilt Co. Inc., N.Y.C. fungicides.
Vancoram: Vanadium Corp. of America, N. Y. C., alloys.
VAN DYKE BROWN 446
Red see Iron Oxide Red
Vandex: R. T. Vanderbilt Co. Inc., N.Y.C., selenium prods.
Vanesta: R. T. Vanderbilt Co. Inc., N.Y.C., starch stabilizer.
Van Estan: Esso Standard Oil Co., N. Y. C., cup greases.
Vanette: Florasynth Labs., Inc., Bronx, N. Y., flavor.
Vanadyl Sulfate see Vanadium Sulfate
Vanfre: R. T. Vanderbilt Co. Inc., N.Y.C., releasing agent.
Vanil Fritzbro: Fritzsche Bros., Inc., N.Y.C., vanilla flavor base.
Vanilast: Ph. Chaleyer, Inc., N. Y. C., vanilla sugar.
Vanillarome: Florasynth Labs., Inc., Bronx, N. Y., flavor.
Vanillic Ester: Florasynth Labs., Inc., Bronx, N. Y., flavor.
VANILLIN 446
o-Vanillin see 2-HYDROXY-3-METHOXY-BENZALDEHYDE
Vanitrol: Van Straaten Chem. Co., Chicago, Ill., metal fabricating lubricants & cleansers.
Van Pestal: Esso Standard Oil Co., lime base tallow compds.
Vanstay: R. T. Vanderbilt Co. Inc., N.Y.C., stabilizer.
Vanwax: R. T. Vanderbilt Co. Inc., N.Y.C., wax emulsion.
Vanzyme: R. T. Vanderbilt Co. Inc., N.Y.C., enzyme.
Vap-O-Cake: Kemiko Mfg. Co., Irvington, N. J., deodorant.
Vap-O-Gran: Kemiko Mfg. Co., Irvington, N. J., deodorant.
Vapophos: (Ortho) California Spray-Chemical Corp., Richmond, Calif., parathion.
Vaporene: Metropolitan Refg. Co., Inc., L. I. City, N.Y., water treatment.
Vapotone-XX Spray: (Ortho) California Spray-Chemical Corp., Richmond, Calif., tetraethyl pyrophosphate.
Var-Clean: Varnitron Co., Burbank, Calif., cleaner.
Variamine: General Dyestuff Corp., N.Y.C., insoluble azo dye.
Vari-Amp: Allis-Chalmers, Milwaukee, Wisc., adjustment for feeder voltage regulators.
Variation: Amer. District Steam Co., N. Tonawanda, N. Y., expansion joint.
Vari-temp: Precision Scientific Co., Chicago, Ill., low temp. cabinet.

VARNISH BASES 594
Gums see individual headings as Gum Copal; Gum Damar etc.
Specialties see Bodying Agents Paint and Varnish; Colors Varnish; Driers Paint & Varnish; Gums Varnish; Solvents Paint & Varnish; Stains Varnish; Thinners Varnish see also Gums Varnish

VARNISHES, ACID AND ALKALI RESISTANT 594
ASPHALT 595
BAKING 595
BRONZING 595
CEMENT 595
FURNITURE 595
GLOSS 595
INSULATING 595
LABELING 595
LAMINATING 595
LITHOGRAPHIC 595
METAL 595
OLEO-RESINOUS 595
PRINTING INK 595
ROSIN 595
SHELLAC 595
SPAR 596
SYNTHETIC 596
TIN PLATE 596
WATERPROOF 596
WRINKLE 596

Varnitized: Varniton Co., Burbank, Calif., filter cloth.
Varno: Varniton Co., Burbank, Calif., cement.
Varsol: Esso Standard Oil Co., N. Y. C., petroleum aliphatic solvents.
Vaseline: Chesebrough Mfg. Co., Cons'd., N. Y. C., jelly.
Vatro Gums: Royce Chem. Co., Carlton Hill, N. J., gums for printing vat colors.
Vatrolite: Royce Chem. Co., Carlton Hill, N. J., sodium hydrosulphite.
Vatsol: American Cyanamid Co., N. Y. C., wetting agents.
Vauquetine see Strychnine Alkaloid
Veecote: R. T. Vanderbilt Co. Inc., N.Y.C., aluminum silicate.
Veegum: R. T. Vanderbilt Co. Inc., N.Y.C., magnesium alumnium silicate.
Vejet: Spraying Systems Co., Bellwood, Ill., spray nozzles.
Vee-Three: Riverside Mfg. Co., St. Louis, Mo., soap.
Vegan: Nyanza Color & Chem. Co., Inc., N. Y. C., union dyes.
Vegan Salt: General Dyestuff Corp., N. Y. C., union dyeing assistant.
Vegecide: Reade Mfg. Co., Jersey City, N. J., weed killer.
Vegeco Wax: Frank B. Ross Co. Inc., Jersey City, N. J., carnauba wax sub.
Vegentine: Althouse Chem. Co., Reading, Pa., direct dyes.
Vegetable Albumen see Albumen Vegetable
Charcoal see Charcoal
Fatty Acids see Acids Fatty (Distilled)
Gum see Dextrin
Papain see Papain
Spermaceti see Wax Chinese
Tallow see Tallow Vegetable
Wax of Japan see Wax Japan
Waxes see Waxes Vegetable
Vegifat: Nopco Chem. Co., Harrison, N. J., yeast & penicillin defoamer.
Vegimal: Paisley Prods., Inc., Chicago, Ill., vegetable glue.
Veiner: Esso Standard Oil Co., N. Y. C., water soluble cutting paste.
VELOMETERS 818
Velubra: Amalgamated Chemical Corp., Philadelphia, Pa., text. softeners.
Velvene: Chicago Sanitary Prod. Co., Chicago, Ill., liquid soaps.
Velvet: L. Martin Co., Inc., N. Y. C., lamp black.
Velvet: Monsanto Chem. Co., St. Louis, lampblack.
Velvet Etching Cream: McKay Chem Co., Inc., B'klyn, N.Y., glass etching comp.
Velvet Greens: Imperial Paper & Color Corp., Glens Falls, N. Y., softened chrome greens.
Velvet Glaze: Tannerize Co., Chicago, Ill., auto polish.
Velvetine: Dow Chemical Co., Midland, Mich., aromatic chem.
Velvetone: William D. Egleston Co., Cambridge, Mass., pulverized limestone.
Velvoray: Royce Chem. Co., Carlton Hill, N. J., finishing oil.
Velvo Softeners: Royce Chem. Co., Carlton Hill, N.J., text. fabrics.
Venetian Red see Iron Oxide Red
Ventube: Du Pont Co., Fabrics Div., Wilmington, Del., tubing.
Venus Crystals see Copper Acetate
Veratrum Viride see Hellebore Root
Verden: E. J. Verde & Co., N. Y. C., tallow.
Ver-E-Good: Devere Co., Racine, Wisc., paint, printing powder, cleaner.
Verflow: Marley Co. Inc., Kansas City, Kansas, cooling tower.
Verigraph: Foxboro Co., Foxboro, Mass., electronic instruments.
Veritivan: Food Materials Corp., Chicago, Ill., vanilla powder.
Verity Brand: Food Materials Corp., Chicago, Ill., flavors.
Vermex: Whitmoyer Laboratories, Myerstown, Pa., poultry wormer.
VERMICULITE 447
Vermilion see Mercury Sulfide Red
Verol: Verona Chem. Co., Newark, N.J., photo agent.
Versatol: Eastman Kodak Co., Rochester, N. Y., developer.
Versene: Bersworth Chemical Co., Framingham, Mass., water conditioner.
Vert de Mitis see Copper Acetoarsenite
Vert de Vienne see Copper Acetoarsenite
Vertical Mill: Combustion Engineering-Superheating, Inc., pulveriser.
Vesta-Gloss: Vestal Incorporated, St. Louis, Mo., floor wax.
Vextram: Sterwin Chems. Inc., N. Y. C., food enrichment mixture.
Vezin: Allis-Chalmers, Milwaukee, Wisc., automatic samplers.
VIBRATORS 706
Viandarome: Fritzsche Bros. Inc., N.Y.C., meatlike flavor.
Viatanex: Enjay Co., Inc., N. Y. C., polyisobutylene.
Vibra-Flow: Syntron Co., The, Homer City, Pa., vibratory feeders.
Vibraloy: Manganese Steel Forge Co., Philadelphia, Pa., wire cloth.
Vibrin: Naugatuck Chem. Div., U. S. Rubber Co., N. Y. C., thermosetting resins.
Vibrocap: Hercules Powder Co., Wilmington, Del., blasting caps.
Vibrogel: Hercules Powder Co., Wilmington, Del., dynamite.
Vicar Cleansers: Virginia-Carolina Chemical Corp., Richmond, Va.
Vichrome: Interchemical Corp., Finishes Div., Newark, N. J., white drum linings.
Vichy Salts see Sodium Bicarbonate
Vickers: R. Y. Ferner Co., Inc., Boston, Mass., photo micrographic equipt.
Vicream: Victor Chem. Wks., Chicago, Ill., baking acid.
Victamine: Victor Chem. Wks., Chicago, Ill., surface agent.
Victawet: Victor Chem. Wks., Chicago, Ill., wetting agent.
Victor: Wm. W. Stanley Co., Inc., N. Y. C, filter cloth.
Victor: Webb Belting Co, Kansas City, Mo., round belt.
Victor: Wright-Austin Co., Detroit, Mich., steam traps (float type).
Vienna Green see Copper Acetoarsenite
Viking: Virginian Gas & Oil Co., Charleston, W. Va., petroleum solvents.
Vinarol: General Dyestuff Corp., finishing agent.
VINE BLACK 447
Vinegar Naphtha see Ethylacetate
Vinegar Salts see Calcium Acetate
Vinic Ether see Ether
Vin-O-Cel: O'Neil Duro Co., Milwaukee, Wis., finisher.
Vinosol: American Resinous Chems. Corp., Peabody, Mass., protective coatings.
Vinsol: Hercules Powder Co., Wilmington, Del., resin.
Vinycol: C. J. Osborn Co., N.Y.C., pigment dispersion.
Vinyl: Goodyear Tire & Rubber Co., Akron, O., flooring.
Vinylum: Argus Chemical Lab., Inc., Brooklyn, N. Y., dispersions.
Violamine: Gen'l Dyestuff Corp., N.Y.C., acid dye.
Violiys: Naugatuck Chem. Div., U. S. Rubber Co., N. Y. C., ionone.
Vio-Tone: Fritzsche Bros. Inc., N. Y. C., aromatic adaptions.
VINYL ACETATE 447
Benzene see Styrene
CHLORIDE 447
CYCLOHEXANE 447
PYRIDINE 447
RESIN PLASTICIZERS 447
Resins see Resins Vinyl
Trichloride see Beta-Trichlorethane
Vinylethylene see Butadiene
Virgin: Industrial Sales Corp., N.Y.C., gum turpentine.
Virgo Salt: Hooker Electrochemical Co., Niagara Falls, N. Y., metal cleaning comp.
Viridia: Fritzsche Bros. Inc., N. Y. C., synthetic perfume base.
Viridian see Guignet's Green
Viridine: Givaudan-Delawanna, Inc., N. Y. C., phenyl acetaldehyde dimethylacetal.
Visaflame: Mercoid Corp., Chicago, Ill., safety control.
Viscarin: Algin Corp. of Amer., N.Y.C., sodium carraghecnate.
Viscos: Nat'l Oil & Supply Co., Newark, N.J., oils, soap & greases.
VISCOSIMETERS 706
VISCOSITY IMPROVERS, DRYING OILS 596
LUBRICANTS 447
OILS 448, 596
VISCOSITY LUBRICANTS 596
Viskoplus: Advance Solvents & Chem. Corp., N.Y.C., aluminum naphthenate.
Vista: Pittsburgh Plate Glass Co., Pittsburgh, Pa., plate glass.
Vistac: Advance Solvents & Chem. Corp., N.Y.C., plasticisers.
Vita-Cal: Vita-Var Corp., Newark, N. J., self-sealing flat wall finish.
Vitadry: Associated Concentrates, Inc., Woodside, L. I., vitamin concentrate.
Vita-Lux Enamel: Vita-Var Corp., Newark, N. J., synthetic white enamel.
Vitasan: Harayd Chems. Inc., Holland, Mich., rubber accelerator.
Vita-Stain: Arapahoe Chems., Inc., Boulder, Colo., stain for viable tissues.
Vital Gas see Oxygen
VITAMIN A 448
B_1 448
B_2 449
B_6 449
B_6 449
B_6 Hydrochloride see Vitamin B_6
C 449
D 450
D_2 450
D_3 450
E 450
G see Vitamin B_2
K 450
K_3 450
VITAMIN CONCENTRATES 596
Vit-O-Feeder: Proportioneers Inc., Providence, R.I., feeder.
Vitralite: Pratt & Lambert Inc., Buffalo, N. Y., enamels.
Vitraloid: Pratt & Lambert Inc., Buffalo, N. Y., lacquer.
Vitreosil: Thermal Synd Ltd., N.Y.C., vitreous silica ware.
Vitrex: Atlas Mineral Products Co., Mertztown, Pa., silicate cement.
Vitrie: U. S. Stoneware Co., N. Y. C., cement.
Vitriolate of Lead see Lead Sulfate Basic
Vitro: M. O. Grove & Co., San Fran., Calif., colors.
Vitrobond: Atlas Mineral Products Co., Mertztown, Pa., acid-proof cement.
Vitrocel: Metalloy Corp., Minneapolis, Minn., suspending agt.
Vitrolan: Sandoz Chem. Wks., Inc., N. Y. C., dyestuffs.
Vocatone: U. S. Industrial Chems. Inc., N.Y.C., mineral specialties.
Vodol: Welch, Holme & Clark Co., Inc., N. Y. C., lecithin.
VOLCANIC ASH 459
Volclay: Amer. Colloid Co., Chgo., bentonite.
Vol-U-Meter: Proportioneers Inc., Providence, R.I., meters.
Volumetat: Fisher Scientific Co., Pittsburgh, Pa., automatic pipette.
Vortex: Lawrence Pump & Eng. Co., Lawrence, Mass., pumps and mixers.
Vorti-Mix: Infilco Inc., Chicago, Ill., for chemical mixing.
Votator: Girdler Corp., Louisville, Ky., heat transfer apparatus.
Vuelite: Monsanto Chem. Co., Springfield, Mass., embossed cellulose acetate sheets.
Vuepak: Monsanto Chem. Co., Springfield, Mass., cellulose acetate packaging material.
Vulcan: General Dyestuff Corp., N. Y. C., dye for rubber.
Vulcan: J. S. McCormack Co., Pittsburgh, Pa., foundry facing.
Vulcanex: Du Pont Co., Rubber Chems. Div., Wilmington, Del., accelerator.
VULCANIZERS 706
VULCANIZING AGENTS, RUBBER 597
Vulcanized Seals see Cements Rubber
Vegetable Oils see Oils Vegetable Vulcanized
Vultac: Sharples Chemicals Inc., Phila., Pa., alkylphenol sulfides for rubber vulcanization
Vultex: General Latex & Chemical Corp., Cambridge, Mass., latex.

Vultramine: General Dyestuff Corp., N.Y.C., dispersing agent for latex.
Vycor: Corning Glass Wks., Corning, N.Y.
Vynecte: Watson-Standard Co., Pittsburgh, Pa., Vinyl coatings.

W

W-100: Wollen Chem. & Sup. Co., Paterson, N.J., floor cleaner.
W.D.C.: Paisley Products, Inc., Chicago, Ill., wood dimension control.
"WD8": E I du Pont de Nemours & Co., Ammonia Dept., Wilmington, Del., solvent.
WGO-9: Joy Mfg. Co., Pittsburgh, Pa., compressor.
WT 19: Kelite Prods. Inc., Los Angeles, Calif., water treatment comp.
WWC: Edgar Brothers Co., Metuchen, N. J., paper filler clay.
Wad Clay see Clay Wad
Wallhide: Pittsburgh Plate Glass Co., Pittsburgh, Pa., interior paints.
Wallpaper Cleaners see Cleaners Wallpaper
Colors see Colors Wallpaper
Wall Saltpeter see Calcium Nitrate
WALNUT SHELL FLOUR 459
Walton: Ableon Supply Co., Woodside, N. Y., humidifiers.
Wampum Brand: Lastik Prods. Co., Inc., Pittsburgh, Pa., roof coating.
Wapaco: Watson-Park Co., Boston, Mass., soaps.
Warco: Warren Refg. & Chem. Co., Cleveland, Ohio, lubricants.
Warco: Warwick Chem. Co ,Long Is. City, N. Y., oils.
Warco XX: Walsh Refractories Corp., St. Louis, Mo., refractory.
Warcofix: Warwick Chem. Co., L. I. C., N. Y., for text. processing.
Warcoflex: Warwick Chem. Co., L. I. City., N.Y., plasticizers.
Warcolyte: Warren Refg. & Chem. Co., Cleveland, Ohio, varnish.
Warcosol: Sun Chemical Corp., L. I. C., N. Y., wetting agent.
Warcozyme: Warwick Chem. Co., L. I. C., N. Y., text. de-sizing agt.
Wardia: Firmenich & Co., N. Y. C., perfume.
Warlasco Digester: Warren-Douglas Chemical Co. Inc., Omaha, Nebr., stain remover.
Wasco: Wash. Color & Chem. Co., Seattle, Wash., thinners.
Wash-Away: U. S. Varnish Co., Hasbrouck Hgts., N.J., paint brush cleaner.
WASHERS AIR 706
BOTTLE 706
DRUM 706
GAS 706
ORE, ROCK, CLAY, ETC. 706
WASHING COMPOUNDS, LEATHER 597
Watchung Red: Du Pont Co., Pigments Dept., Wilmington, Del., pigments.
WATER ANALYSIS EQUIPMENT 706
Watch-Dog: Worthington Pump & Machinery Corp., Harrison, N.J., water meters.
WATER COOLING EQUIPMENT 597
Water Glass see Sodium Silicate
Softeners see Softeners Water also individual headings as Sodium Phosphate Tri; Sodium Aluminate, etc.
Waterite: Feedwaters Inc., N.Y.C., water treatment.
Water-Lux: Chemical Engineering Sales Co., Chicago, Ill., water softener.
WATERPROOFING AGENTS, ASPHALT EMULSION 597
COLORLESS 597
Compounds see individual headings as Calcium Stearate; Aluminum Stearate; etc.
ELECTRICAL 597
LEATHER 597
MASONRY 597
RESIN BASE 597
Salts see Aluminum Acetate Basic
Specialties see Waterproofing Agents; Cements Waterproofing; Gums Waterproofing; Paints Waterproofing; Pastes Waterproofing; Coatings Waterproofing; Greases Waterproofing; Tar Waterproofing; Soaps Metallic.
TEXTILE 597
Water King: Peerless Pump Div. Food Machinery Corp., Los Angeles, Calif., pumps.
WATER PURIFICATION APPARATUS AND EQUIPMENT 706
WATER PURIFICATION CARBONS 597
PURIFICATION COMPOUNDS 597
REPELLENTS TEXTILE 597
WATER SOFTENING AND PURIFYING PLANTS, etc. (Hypo-Chlorinators) 707
Waterspar: Pittsburgh Plate Glass Co., Pittsburgh, Pa., enamels.
WATTLE BARK 450

WAX

WAX BAYBERRY 450
BEES 450
BEES SUBSTITUTE 451
CANDELILLA 451
CARNAUBA 452
CARNAUBA, SUBSTITUTE 453
CERESIN 453
CHINESE 453
DIPPING 598
ENGRAVING 598
EXTRACT 453
Insect see Wax Japan and Wax Chinese
JAPAN 453
LAMINATING 598
LANOLIN 454
MICROCRYSTALLINE 454
MONTAN 455
MONTAN SUBSTITUTE 455
OURICURY 455
OZOKERITE 456
PALM 456
PARAFFIN 456
PETROLEUM 457
SHELLAC 457
SPERMACETI 457
WAXES, AMORPHOUS 598
BATTERY 598

WAX (cont'd)
CABLE 598
CANNING 598
CASTING 598
ELECTROTYPERS' 598
EMULSIFYING 598
FIRE RESISTANT 599
FLOOR 599
FOOD COATING 599
I.G. 458
INSECT 458
INSULATING 599
LIQUID BULK 599
MINERAL 458
NATURAL 459
PASTE BULK 599
SEALING 599
SOLUBLE 599
SYNTHETIC 600
TANNERS 600
TEXTILE 600
VEGETABLE 459
Waxine: Amer. Cyanamid Chem. Company, Industrial Chems. Div., N.Y.C., silane.
Wax-O-Namel: S. C. Johnson & Sons Inc., Racine, Wis., wax fortified paint.
3-Way Dust: Parsons Chemical Wks., Grand Ledge, Mich., insecticide.
Waytrol: The Jeffrey Mfg. Co., Columbus, O., feeding & weighing device.
Wear-over: Webb Belting Co., Kansas City, Mo., aluminum paint.
Weatherall: Huntington Labs. Inc., Huntington, Ind., water resisting wax.
Weatherized: Colonial Alloys Co., Phila., Pa., aluminum forms.
Weathermakers: Carrier Corp., Syracuse, N. Y., air conditioning equipt.
Weather-Sealed: Warwick Chem. Co., L. I. C., N. Y., text. water repellent.
Webnix: Latex Distrs., Inc., Baltimore, Md., anti-foaming agent.
Webster-nesbitt: Warren Webster & Co., Camden, N. J., unit heaters.
Wecocide: Western Chemical & Mfg. Co., Los Angeles, Calif., sanitizing agent.
Wecoline: E. F. Drew & Co., Inc., N. Y. C., fatty acids.
Wedco: Western Chem. Co., Phoenix, Ariz., cleanser.
Wedgetite: Electro-Chemical Supply & Engineering Co., Emmaus, Pa., joint.
WEED KILLERS 600
Weedanol: Associated Chemists Inc., N. Collins, N. Y., 2,4-d weed killers.
Weed-B-Gon: (Ortho) California Spray-Chemical Corp., weed killer.
Weedaway: Miller Chem. & Fert. Corp., Baltimore, Md., 2,4-D weed killer.
Weedestroy: Delft Co., Chicago, Ill., weed killers.
Weedeth: Miller Chemical Co., Omaha, Nebr., 2,4-D.
Weedicide: Thompson Horticultural Chems. Corp., Los Angeles, Calif., 2,4-d herbicide.
Weedmaster: Michigan Chemical Corp., St. Louis, Mich., weed killers
Weed-No-More: W. W. Lawrence & Co., Pittsburgh, Pa., herbicide.
Weigh Sow: The Syntron Co., Homer City, Pa., weigh feeders.
WEIGHING MACHINES 707
WEIGHTERS (Textile) 600
Weightex: Scher Bros., Clifton, N.J., weighter finish.
Weightometer: Merrick Scale Mfg. Co., Passaic, N. J., conveyor scale.
Weinig: Colorado Iron Works Co., Denver, Colo., concentrator.
Weisongroom see Copper Acetoarsenite
Weldedge: Multi Metal Wire Cloth Co., Inc., N.Y.C., metallic edge binding.
Weldella: Taylor Forge & Pipe Wks., Chicago, Ill.
WELDING APPARATUS 707
FITTINGS, CARBON STEEL 707
FITTINGS, STAINLESS STEEL 707
Fluxes see Flux Welding
WELDING RODS 707
Weldmaster: Lewis Shepard Prods., Inc., Watertown, Mass., skid platforms.
Weldtite: Ralph V. Rulon, Inc., Phila., Pa., cement.
Weld-o-tron: Allis-Chalmers, Milwaukee, Wisc., arc welder.
WELLS, THERMOCOUPLE 707
Welsite: Twin City Shellac Co. Inc., B'klyn.,N. Y., liquid spirit wax.
Wesson Oil: Southern Cotton Oil Co., N. Y. C., oil cottonseed.
Western Ag-Hydrate: Western Lime & Cement Co., Milwaukee, Wisc., agric. hydrated lime.
Western Maid: Western Soap & Sales Co., Spokane, Wash., cleaning compounds.
Westo: Western Chem. Co., K.C., Mo., hot water treatment.
Westrosol see Trichloroethylene
Wetanol: Glyco Products Co., Inc., B'klyn, N.Y., wetting agent.
Wet-O-Dry: Midland Color & Chem. Co., N.Y.C., paint remover.
Wetonite: Industrial Chem. Prods. Co., Phila., Pa., wetting agt.
Wetsit: Jacques Wolf & Co., Passaic, N.J., wetting agent.
Wetsit Conc.: Jacques Wolf & Co., Passaic, N.J., wetting agent.
Wetsol: Eaton Chem. & Dyestuff Co., Detroit, Mich., wet spotter.
Wetta water: Arnold, Hoffman & Co. Inc., Providence, R. I., fire-fighting specialty.
WETTING AGENTS 601
Whalehide: Industrial Prods. Co., Phila., Pa., syn. rubber gloves.
Whatman: H. Reeve Angel & Co., N.Y.C., filter papers.
Wheatex: Huron Milling Co. Inc., N. Y. C., laundry starch.
Wheelabrator: Amer. Wheelabrator & Equip. Corp., Mishawaka, Ind., blast cleaning equipt.
Wheelyfe: Bee Chem. Co., Chicago, Ill., grinding oils.
Whey albumin see Albumen Milk
Whipper: National Soap & Chem. Corp., Minneapolis, Minn., washing compounds.
Whirljet: Spraying Systems Co., Bellwood, Ill., spray nozzles.
Whirlwind: Wright-Austin Co., Detroit, Mich., compressed air purifier.
Whiteod: Whitmoyer Labs., Inc., Myerstown, Penna., cod liver oil.
White Bole see Clays China
White Caustic see Soda Caustic
White Clay see Terra Alba White
White Copperas see Zinc Sulfate
White-Kote: The Moores Lime Co., Springfield, O., lime.
White Mineral Oil see Oil Mineral

White Oil see Oil Mineral
White Oleine: Wilson Marton Div., Phila., Pa., oleic acid.
White Pigments see Pigments White
White Precipitate see Mercury Ammoniated
White Rose: Cincinnati Oil Works Co., Cincinnati, O., lubricating oils.
White Rose: Longview Saginaw Lime Wks. Inc., Birmingham, Ala., calcium burnt lime.
White Rose: Frederic B. Stevens Inc., Detroit, Mich., buffing composition.
White Star: Cellulo Co., Sandusky, Ohio, filtermass.
White Tar see Naphthalene
White Vitriol see Zinc Sulfate
Whitetint: Carlton Chem. Co., Inc., N. Y. C., optical dye.
"Whitex": Milwaukee Chemical Co., Milwaukee, Wis., detergent.
WHITING see also Calcium Carbonate 459
Whitkleen: Whitmoyer Laboratories, Myerstown, Pa., water softener.
Whitolineum: Whitmoyer Labs., Inc., Myerstown, Pa., wood preservative.
Whitpine: Whitmoyer Labs., Inc., Myerstown, Pa., disinfectant.
Whitspray: Whitmoyer Labs., Inc., Myerstown, Pa., fly spray.
Whitten: H. R. Larst Co., San Fran., Calif., gelatine.
Whizzer Separator: Combustion Engineering-Superheating, Inc., Chicago, Ill., air separator.
Why-Wax: Technical-Chemical Corp., Bethel, Conn., resin-emulsion.
Wiggins: General Amer. Transportation Corp., Chicago, Ill., roofs.
Wil Kleen Crete: Williams Chemical Corp. of Miami, Miami, Fla., cement cleaner.
Wilcarbo: Wilson Carbon Co. Inc., N. Y. C., activated carbon.
Wilbrite: Williams Chem. Corp. of Miami, Miami, Fla., neutral scrub soap.
Wilco: Williams Chemical Corp. of Miami, Miami, Fla., disinfectants.
Wildeo: Williams Chemical Corp. of Miami, Miami, Fla., deodorant.
Wilgloss: Williams Chem. Co., Miami, floor wax.
Wilkleen: Williams Chemical Corp. of Miami, Miami, Fla., glass cleaner.
Willcokere: Will Corp., Rochester, N. Y., pencils.
Willcote: Will Corp., Rochester, N. Y., paint.
Willstick: F. J. Heap & Son, Boston, Mass., mucilege.
WINCHES AND WINDLASSES 707
Wine Lees see Argols
Win-Glow: Central Ill. Labs. Inc., Peoria, Ill., glass cleaner.
Windex: Drackett Co., Cincinnati, O., glass cleaner.
Wingfoot: Goodyear Tire & Rubber Co., Akron, O., rubber floor covering.
Wink-Dri: F. G. Okie, Inc., Phila., Pa., printing ink.
Winkie: Michigan Chemical Corp., St. Louis, Mich., liquid detergent.
Wintergarde: Pyrene Mfg. Co., Newark, N. J., fire extinguisher.
Wintergreen see Methyl Salicylate
Wintrex: Thompson Chem. Co., Pawtucket, R.I., anti-freeze.
WIRE, CORROSION RESISTING 707
LEAD 707
MESH 707
STAINLESS STEEL 707
THERMOCOUPLE 707
TIN 707
WELDING 707
Witcogum: Witco Chem. Co., N.Y., vulcanized oils.
Witcote: Witco Chem. Co., N. Y. C., automotive undercoating & sound deadener.
Witcolac: Witco Chem. Co., N. Y. C., carbon black.
Witcolith: Witco Chem. Co., N. Y. C., carbon black.
Witcarb: Witco Chem. Co., N. Y. C., precipitated calcium carbonate.
WITHERITE see also Barium Carbonate 459
Wixo: Elkay Prods. Co., N.Y.C., insecticides.
Woburn-Flemming Sales Division, N. Y. C., dehydrated castor oil.
Wixu: Elkay Products Co., N.Y.C., rat glue.
Woco: H. M. Wocher & Son Co., Philadelphia, Pa., shellac remover.
Wolfco: Jacques Wolf & Co., Passaic, N.J., text. spec.
Wolfram see Tungsten
Wolframate see Lead Tungstate
Wolframite see Tungsten Ore
Wolgel: Wollen Chem. & Supply Co., Paterson, N. J., scrub soap.
Wolin Oil: Woburn Chem. Corp., Kearny, N. J., varnish films.
Wolman: American Lumber & Treating Co., Chicago, Ill., wood preservative.
Wompco: Worthington Pump & Machinery Corp., Harrison, N.J., cast iron.
Wonder: Uncle Sam Chem. Co. Inc., N. Y. C., metal polish.
WOOD Alcohol see Methanol
BLEACHES 603
Charcoal see Charcoal
Creosote see Creosote Wood
Ether see Ether Dimethyl
FLOUR 459
Fustic see Fustic
Meal see Wood Flour
Naphtha see Methanol
TAR 459
Wood Bond: Polymer Chemical Co., Cincinnati, O., syn. resin wood glue.
Wood Glu: Paisley Products Inc., Chicago, Ill., joint glue.
Wood Preservatives see Preservatives Wood also individual headings as Creosote; Zinc Chloride; etc.
Specialties see Stains Wood; Fillers Wood; Finishes Wood; Fire-Proofing Compounds Wood; Lacquers Wood; Preservatives Wood; Sealers Wood; Stains Wood.
Spirits see Methanol
Vinegar see Acid Pyroligneous
Woodeo: Windsor Wax Co., Inc., Hoboken, N. J., cleaner & wax.
Woodfix: Wood Treat Chemicals Co., St. Louis, Mo., wood treating sol.
Woodhealth: Protection Products Mfg. Co., Kalamazoo, Mich., wood preservative.
Woodlife: Protection Products Mfg. Co., Kalamazoo, Mich., water repellent.
Wood-repair: National Casein Co., Chicago, Ill., wood filler.
Wood-Tite Glue: Midland Glue Products Co., Inc., Detroit, Mich., woodworking glue.
Woodtox: Wood Treating Chemicals Co., St. Louis, Mo., wood preservative
Woodtreat: Wood Treating Chemicals Co., St. Louis, Mo., wood preservative
Wood Weld: Lox Mfg. Co., Kansas City, Mo., waterproof cement.
Woodyouth: Protection Products Mfg. Co., Kalamazoo, Mich., water repellent.
Wool (Artificial) see Fibres Synthetic
Fat see Adeps Lanae
WOOL GLASS 707
GREASE see also Degras and Lanolin 459
LEAD 707
Mordant see Chromium Sulfate
Pitch see Pitch Wool
ROCK 707
Specialties see Dyes Wool; Finishing Compounds Wool; Oils Wool Scouring; Soaps Wool; also Textile Specialties
Wool Grease see Lanolin
Worm-I-Cides: Parsons Chemical Wks., Grand Ledge, Mich., for deworming.
Worthite: Worthington Pump & Machinery Corp., Harrison, N.J., alloy steel.
Worthmore: Sachs Mfg. Co., Pittsburgh, Pa., white oils.
Wotta: Sun Chemical Corp., L. I. C., N. Y., offset inks.
WRAPPING MACHINES 707
Wyex: J. M. Huber Corp., N .Y. C., carbon black.
Wyo-Bond: Wyodak Chem. Co., Cleveland, Ohio, bentonite.
Wyo-Jel: Wyodak Chem. Co., Cleveland, Ohio, bentonite.
Wyo-Lite: Wyodak Chem. Co., Cleveland, Ohio, vermiculite.
Wytine: Kuehne Chem Co., Elizabeth, N.J., laundry color stripper.

X, Y, Z

X-1: Neville Co., Pittsburgh, Pa., resinous oil.
X90: Thomas W. Dunn Co., N.Y.C., moulding composition.
XXX: Baker Castor Oil Co., N.Y.C., oil-soluble castor oils.
Xacto: Bowser, Inc., Ft. Wayne, Ind., liquid meter.
Xanno: Applegate Chemical Co., Chicago, Ill., indelible ink.
Xanthiosite see Nickel Arsenate.
XANTHINE 461
Xanthione: Ph. Chaleyer, Inc., N. Y. C., fruity ketone.
XANTHONE 461
Xanthorrhea Resin see Gum Accroides
Xaxa see Acid Acetylsalicylic
X-Crepe: Cincinnati Industries Inc., Cincinnati, O.
Xite: Cole & DeGraf, San Francisco, Calif., laundry clay.
X-Termin-8: Planetary Chem. Co., Creve Coeur, Mo., wood preservative.
Xtra-Fast: Du Pont Co., Photo Prods. Dept., Wilmington, Del., X-ray film.
Xyanamine: Onyx Oil & Chem. Co., Jersey City, N.J., wetting agents.
Xylene see Xylol
o-XYLENE 461
XYLENOLS 461
m-XYLIDINE 461
XYLIDINES MIXED 461
XYLOL 461
Xyno Resins: Onyx Oil & Chem. Co., Jersey City, N. J., water dispersions and solutions.
Xynofix FL: Onyx Oil & Chem. Co., Jersey City, N. J., fixitive.

Yacca Gum see Gum Accroides.
Yardlift: Clark Equipt. Co., Battle Creek, Mich., fork-lift trucks.
Yarmor: Hercules Powder Co., Wilmington, Del., pine oil.
YARRA YARRA 461
Yelkin TTS: Ross & Rowe, Inc., Chicago, Ill., soybean lecithin.
Yello-A: General Biochemicals, Inc., Chagrin Falls, O., vitamin A carotene.
Yellow Gum see Gum Accroides.
Yellow-Hoop: Wyandotte Chems. Corp., Wyandotte, Mich., laundry soda.
Yellow Oxide see Iron Oxide Yellow
Yellow Precipitate see Mercuric Oxide Yellow.
Yellow Prussiate of Potash see Potassium Ferrocyanide
Yellow Prussiate of Soda see Sodium Ferrocyanide
Yellow Resin see Rosin Gum
Yellstone: Stauffer Chem. Co., N. Y. C., sulphur.
Yellow Uranium Oxide see Sodium Uranate.
Yellow Wax see Wax Bees.
Yodoxin: B. L. Lemke & Co. Inc., Lodi, N. J., pharmaceutical.
YOHIMBINE HYDROCHLORIDE 462
Yorkshire: Hamn.ill & Gillespie, N.Y.C., cliffstone Paris white.
York White: R. E. Carroll, Inc., Trenton, N. J., paint extender.
York White: R. E. Carroll, Inc., Trenton, N. J., extender & filler.
Youco: Chas: W. Young & Co., Phila., Pa., soaps.
Y-Type: Wright-Austin Co., Detroit, Mich., strainers.

Z-1: Colloidal Prod. Corp., San Fran., Calif., insecticide spreader.
Z-C: Niagara Chem. Div., Food Machinery & Chem Corp., N.Y.C., zinc dimethyl dithiocarbamate.
Z.M.A.: Westvaco Chem. Corp., N. Y. C., wood preservative.
Zaffer see Smalt
Zakuba: Florasynth Labs., Inc., Bronx, N. Y., flavor.
Zaco: Zip Abrasive Co., Cleveland, Ohio, lubricant additives.
Zamak: N. J. Zinc Sales Co., N. Y. C., zinc alloys.
Zambesi: General Dyestuff Corp., N.Y.C., direct developed dye.
Zanthorrhea Resin see Gum Accroides.
Zanzite: McDougall-Butler Co., Inc., Buffalo, N. Y., eggshell enamel.
Zapak: Industrial Finishes Dept., Atlas Powder Co., Stamford, Conn., lacquer.
Zapon: Industrial Finishes Dept., Atlas Powder Co., Stamford, Conn., lacquers.
Zaponex: Atlas Powder Co., Stamford, Conn., hand cleaners.
Zaponite: Industrial Finishes Dept., Atlas Powder Co., Stamford, Conn., finishes.
Zaponoid: Atlas Powder Co., Stamford,Conn., finishes and lacquers.
Zapanol: Zapon Div. Atlas Powder Co., Stamford, Conn., wood stain
Zapota Gum see Gum Chicle
Zatex: Industrial Finishes Dept., Atlas Powder Co., Stamford, Conn., finishes.
Z-Crete: Zonolite Co., Chicago, Ill., pipe insulation.
Zeco: Edwin R. Howell, Detroit, Mich., pitch.
Zeco: Jensen & McClelland, Chicago, Ill., pitches.

Zoo-N-O: W. R. E. Andrews Sales Inc., Phila., Pa., zinc carbonate.
Zeetone: Riverside Mfg. Co., St. Louis, Mo., paint remover.

ZEIN 462

Zelan: E I du Pont de Nemours & Co., Organ. Chems. Dept., Wilmington, Del., water repellent.
Zenite: Du Pont Co., Rubber Chems. Div., Wilmington, Del., rubber accelerator.
Zenith: Imperial Chem Co., Los Angeles, Calif., soap.
Zentralin see Dimethyl Diphenyl Urea
Zeodur: Permutit Co., N. Y. C., water softener.
Zeogel: Baroid Sales Division, Nat'l Lead Co., Los Angeles, Calif., clay.
Zeokarb: Permutit Co., N. Y. C., water softener.

ZEOLITES 463

Zephyrweld: Tri-Clover Machine Co., Kenosha, Wis., steel welding fitting.
"Zerex": E I du Pont de Nemours & Co., Ammonia Dept., Wilmington, Del., anti rust anti-freeze.
Zeriate: E I du Pont de Nemours & Co., Grasselli Dept., Wilmington, Del., fungicide.
Zephleur: Fritzsche Bros. Inc., N. Y. C., cologne perfume base.
Zerice: Esso Standard Oil Co., N. Y. C., light lubricating oils.
Zerok: Atlas Mineral Prods. Co., Mertztown, Pa., syn. resin.
"Zerone": E I du Pont de Nemours & Co., Ammonia Dept., Wilmington, Del., anti rust anti-freeze.
Zilloy: N. J. Zinc Sales Co., N. Y. C., rolled zinc alloy.
Zimate: R. T. Vanderbilt Co. Inc., N.Y.C., rubber accelerator.
Zinco: M. O. Grove & Co., San Fran., Calif., vanillin.
Zimco: Sterwin Chems., Inc., N. Y. C., lignin.
Zinar: Newport Industries, Inc., N. Y. C., zinc resinates.

ZINC see also **Zinc Dust** 462
- **ACETATE** 462
- **AMMONIUM CHLORIDE** 462
- **Baryta White** see Lithopone
- **BROMIDE** 462
- **CARBONATE** 462
- **CHLORIDE** 462
- **CHROMATE** 462
- **Chrome** see Zinc Chromate
- **CYANIDE** 462
- **DIBUTYL DITHIOCARBAMATE** 463
- **DIETHYL DITHIOCARBAMATE** 463
- **DIMETHYL DITHIOCARBAMATE** 463
- **DUST** 463
- **2-ETHYLHEXOATE** 463
- **FLUOBORATE** 463
- **FLUORIDE** 463
- **FORMATE** 463
- **HYDROSULFITE** 463
- **LAURATE** 463
- **LINOLEATE** 463
- **MOSSY** 463
- **NAPHTHENATE** 463
- **NITRATE** 463
- **OLEATE** 464

ZINC OXIDE 464
- **PALMITATE** 464
- **PERCHLORATE** 464
- Perhydrol see Zinc Peroxide
- **PERMANGANATE** 464
- **PEROXIDE** 464
- **Phenol Sulfonate** see Zinc Sulfocarbolate
- **1-PHENOL-4-SULFONATE** 464
- **PHOSPHATES** 464
- Pigments see Pigments Zinc
- **POWDER** 465
- **RESINATE** 465
- **RESINOLEATE** 465
- **SALICYLATE** 465
- **SILICOFLUORIDE** 465
- **STEARATE** 465
- Subcarbonate see Zinc Carbonate
- **SULFATE** 466
- **SULFATE MONOHYDRATE** 466
- **SULFIDE** 466
- **SULFIDE, LUMINOUS** 466
- Sulfide White see Lithopone
- **SULFOCARBOLATE** 466
- **UNDECYLENATE** 466
- **VALERATE** 466
- Vitriol see Zinc Sulfate
- White see Zinc Oxide
- Yellow see Zinc Chromate
- **ZIRCONIUM SILICATE** 466

Zincate: Gilbreath Chemical Co., San Fran., Calif., paint dryer.
Zincolith see Lithopone
Zincopax: Titanium Alloy Mfg. Div., Nat'l Lead Co., N.Y.C., glaze opacifier.
Zincoxide: Lowe Bros. Co., Dayton, O., metal primer.
Zing: Planetary Chem. Co., Creve Coeur, Mo., chlordane-DDT formulation.
Zinol: Newport Industries, Inc., N.Y.C., zinc resinates sol.
Zin-o-lyte: Du Pont Co., Electro Chems. Dept., Wilmington, zinc plating comp.
Zip: Dacar Chem. Prod. Co., Pittsburgh, Pa., fire scale.
Zipolite: Royce Chem. Co., Carlton Hill, N. J., alkyl aryl sulfonate.
Zipper: Stephens-Adamson Mfg. Co., Aurora, Ill., conveyor-elevator.
Zippo: Commonwealth Color & Chemical Co., N. Y. C., emulsifier.

ZIRCON 467

Zircon Alba see Zirconium Oxide
Zirconia see Zirconium Oxide

ZIRCONIUM (the Metal) 467
- **ACETATE** 467
- Anhydride see Zirconium Oxide
- **CARBONATE** 467
- **HYDRIDE** 467
- **NITRATE** 467
- **OXIDE** 467
- **OXYCHLORIDE** 467
- **SALTS** 468
- **SILICATE** 468
- **SULFATE** 468
- **TETRACHLORIDE** 468

ZIRCONYL SULFATE SOLUTION 468

Zircotan: Rohm & Haas Co., Phila., Pa., tanning agt.
Zircufrax: Carborundum Co., Perth Amboy, N. J.
Zirex: Newport Industries, Inc., N. Y. C., zinc resinates.
Zirxite see Zirconium Oxide
Zirox: Titanium Alloy Mfg. Div., Nat'l Lead Co., N.Y.C., optical polishing compd.
Zitro: Newport Industries, Inc., Div., N.Y.C., zinc resinates.
Z-Odine: Dacar Chemical Products Co., Pittsburgh, Pa., zeolite cleaner.
Zol: Stauffer Chem. Co., N. Y. C., cleaning fluid.
Zola see Sodium Borate
Zolvit: Riverside Mfg. Co., St. Louis, Mo., paint remover.
Zone-Lac: J. E. Bauer Co., Los Angeles, Calif., traffic paint.
Zopaque: Chem. & Pigment Co., Balto., titanium dioxide.
61: Pratt & Lambert, Inc., Buffalo, N.Y., varns., enamels.
Zophaform: Zophar Mills Inc., B'klyn., N. Y., disinfectants.
Zophar Code #: Zophar Mills Inc., B'klyn, N.Y., waxes.
Zopharlac: Zophar Mills Inc., B'klyn., N. Y., brewers pitch.
Zophite: Zophar Mills Inc., B'klyn., N. Y., chemical cleaners.
Zorball: Wyandotte Chems. Corp., Wyandotte, Mich., oil & water absorbent.
Zoseal: Zophar Mills Inc., B'klyn., N. Y., joint compounds.
Zymex: Wallerstein Co. Inc., N.Y.C., desizing compound.
Zyrote: Gotham Ink & Color Co., L. I. City, N. Y., toluol gravure inks.
Zyrex: Halowax Prod. Div., N. Y. C., resins.

#2: Edgar Brothers Co., Motuchen, N. J., leather conditioner.
No. 3: Hammill & Gillespie Inc., N. Y. C., colloidal kaolin.
4 Nova: W. A. Wood Co., Boston, Mass., soluble wood oil.
5: Dings & Schuster Inc., N.Y.C., spirit varnishes.
7: E I du Pont de Nemours & Co., Fabric & Finishes Dept., Wilmington, Del., chemical specialties.
"88": Anderson-Stolz Corp, Kansas City, Mo., scale remover.
10: Malcolm Nicol & Co., Hawthorne, N. J., textile scouring agent.
15: E. F. Drew & Co., Inc., N. Y. C., wool oil.
#21: Zophar Mills Inc., B'klyn, N.Y., brewers pitch.
#22: Continental Chemical Co., Passaic, N. J., wetting agt.
33: Hood Chem Co. Inc., Philadelphia, Pa., bleach.
38: Pratt & Lambert, Inc., Buffalo, N. Y., trim varnishes.
60 second: Superior Prods. Co., Somerville, Mass., solvent.
76: Du Pont Co., Finishes Div., Wilmington, Del., dull varnish.
117 Wax Remover: Huntington Labs., Inc., Huntington, Ind.: for removal of old wax film.
118: Julius Hyman & Co., Denver, Colo., insect toxicant.
#132: Keystone Filler & Mfg. Co., Muncy, Pa., rotten stone.
#136: Keystone Filler & Mfg. Co., Muncy, Pa., for rubber compounding.
130 Series: Amer. Crayon Co., Sandusky, Ohio, crayon.
158: Carpenter Steel Co., Reading, Pa., alloy steel.
200: E. F. Drew & Co., Inc., N. Y. C., silk oil.
2-2-4: Commercial Solvents Corp., N. Y. C., high boiling solvent.
240: E. F. Drew & Co., Inc., N. Y. C., rayon oil.
248: Joy Chemical, Inc., Pawtucket, R. I., cleaning fluids.
2-50-W: The Neville Co., Pittsburgh, Pa., hi-flash solvent.
348: Joy Chemical, Inc., Pawtucket, R. I., text. detergents.
#360: Lanair Chem. Corp., Chicago, Ill., soap.
#399: Smith Crude Drug & Spice Corp., N. Y. C., tannic acid.
400 Series: Amer. Crayon Co., Sandusky, Ohio, lumber crayons.
465: The Neville Co., Pittsburgh, Pa., syn. resin.
497: Julius Hyman & Co., Denver, Colo., insect toxicant.
502: E. F. Drew & Co., Inc., N. Y. C., text. oil.
510: R. B. H. Dispersions, Inc., Bound Brook, N. J., fossil resin.
514: E. F. Drew & Co., Inc., N. Y. C., defoamer.
522: E. F. Drew & Co., Inc., N. Y. C., soya oil.
#532: Lanair Chem. Corp., Chicago, Ill., carbon black remover.
6-12: Carbide & Carbon Chems. Corp., N. Y. C., insect repellent.
549: R. B. H. Dispersions, Inc., Bound Brook, N. J., syn. resin.
562: Joy Chemical, Inc., Pawtucket, R. I., text. finishes.
#632: Lanair Chem. Corp., Chicago, Ill., green soap.
660: E. F. Drew & Co., Inc., N. Y. C., nylon coning oil.
678: Kraft Chem. Co., Chicago, Ill., zinc oxide.
705: Commercial Paste Co., Columbus, O., pastes.
#706: Lanair Chem. Corp., Chicago, Ill., quaternary ammonium comp.
#711: Lanair Chem. Corp., Chicago, Ill., cresol comp.
725: Huron Milling Co. Inc., N. Y. C., pasting starch.
#735: Lanair Chem. Corp., Chicago, Ill., deodorant spray.
#810: Lanair Chem. Corp., Chicago, Ill., alkali cleaner.
#821: Lanair Chem. Corp., Chicago, Ill., aluminum cleaner.
#880: Lanair Chem. Corp., Chicago, Ill., metal polish.
#943: Smith Crude Drug & Spice Co., N. Y. C., balsam Canada.
#948: Lanair Chem. Corp., Chicago, Ill., carbon remover.
999+ fine: Handy-Harmon, N.Y.C., silver anodes.
1300: Commercial Paste Co., Columbus, O., labeling glue.
1303: Commercial Paste Co., Columbus, O., glues.
1315: Joy Chemical, Inc., Pawtucket, R. I., rayon warp size.
1320: Joy Chemical, Inc., Pawtucket, R. I., text. sizes.
1322: Commercial Paste Co., Columbus, O., glue.
1323: Joy Chemical, Inc., Pawtucket, R. I., cotton warp size.
1400: Joy Chemical, Inc., Pawtucket, R. I., text. softeners.
1415: Commercial Paste Co., Columbus, O., pastes.
1475: Joy Chemical, Inc., Pawtucket, R. I., text. stiffeners.
1634: Joy Chemical, Inc., Pawtucket, R. I., text. waxes.
1916: Blue Ridge Talc Co., Inc., Henry, Va., dry color.
1917: Blue Ridge Talc Co., Inc., Henry, Va., earth colors.
1918: Blue Ridge Talc Co., Inc., Henry, Va., mortar colors.
1964: Blue Ridge Talc Co., Inc., Henry, Va., red oxide.
#2036: Smith Crude Drug & Spice Co., N. Y. C., crude drugs.
2791: Blue Ridge Talc Co., Inc., Henry, Va., oxide ferric.
#3009: Smith Crude Drug & Spice Corp., N. Y. C., gum Arabic.
#3068: Smith Crude Drug & Spice Corp., N. Y. C., gum Tragacanth.
3277: Blue Ridge Talc Co., Inc., Henry, Va., iron oxide.
3900: R-B-H Dispersions Div., Interchems. Corp., Bound Brook, N.J., maroon pigment.
3906: Blue Ridge Talc Co., Inc., Henry, Va., mineral black.
#3972: Smith Crude Drug & Spice Corp., N. Y. C., Irish moss.
4157: Blue Ridge Talc Co., Inc., Henry, Va., ochres.
#4815: Smith Crude Drug & Spice Corp., N. Y. C., pumice seed.
#4868: Smith Crude Drug & Spice Co., N. Y. C., roots.
4935: Blue Ridge Talc Co., Inc., Henry, Va., sienna.
No. 5-317: Carpenter Steel Co., Reading, Pa., alloy steel.
5429: Blue Ridge Talc Co., Inc., Henry, Va., talc.
#5774: Smith Crude Drug & Spice Corp., N. Y. C., Venice Turpentine.
#5874: Smith Crude Drug & Spice Co., N. Y. C., wax Japan.

Coal Tar Chemicals

PHENOL U.S.P.

ORTHO CRESOL

META-PARA CRESOL

CRESYLIC ACID

NAPHTHALENE

PYRIDINE



COALTAR CHEMICALS CORPORATION

William D. Neuberg, President

GRAYBAR BLDG., 420 LEXINGTON AVE., NEW YORK 17, N. Y.

TELEPHONE: OREGON 9-2550

CABLE: "COALTARKEM"

Reader Service

An Expanded Service To You

To receive more information about any product advertised in the Buyers Guide, write your request on one of these easy-to-use cards. The result is . . . time saved for you, with no letters to write, and no postage required.

HOW TO USE

Fill in the product on which you want more information, the advertiser's name, the number of the page on which the ad appears — plus your name, position, and address. Mail the card to us. We tell the company of your interest and he replies direct to you.

This handy Buyers Guide is divided into distinct sections, each of which will be a valuable source of information to you—not only now, but in the future too. Keep it handy—you will have continuing use for it—and for the Reader Service cards.

INDEX OF ADVERTISERS

. . . . . PAGE 4

Here is a vital department for you—lists all the advertisers in the Guide—if you see a company's name there and read his ad and would like to know more about his product or service, just tear out one of the cards at the right, fill it in, and mail it.

CATALOG SECTION

. . . . . PAGE 8A

In this section are full page advertisements with descriptive treatment of chemicals and equipment that you may want to know more about—use a Reader Service Postcard.

CHEMICAL COMPANY DIRECTORY

. . . . . PAGE 9

Want to know what company makes a certain kind of chemical in a particular area? This part of the Buyers Guide gives you the answer. Notice the advertisements scattered through the pages—do you see something you would like to know more about? Send a postcard to us.

1 Product ..... Company .... Page.....	5 Product ..... Company .... Page.....
2 Product ..... Company .... Page.....	6 Product ..... Company .... Page.....
3 Product ..... Company .... Page.....	7 Product ..... Company .... Page.....
4 Product ..... Company .... Page.....	8 Product ..... Company .... Page.....

Name .....*Title* .....
Your Company .....
Address .....

1 Product ..... Company .... Page.....	5 Product ..... Company .... Page.....
2 Product ..... Company .... Page.....	6 Product ..... Company .... Page.....
3 Product ..... Company .... Page.....	7 Product ..... Company .... Page.....
4 Product ..... Company .... Page.....	8 Product ..... Company .... Page.....

Name .....*Title* .....
Your Company .....
Address .....

NEED MORE DATA • • •

. . . on new materials and equipment

. . . on products appearing in the advertising pages

WANT COPIES OF • • •

. . . latest catalogs and manufacturers' bulletins

USE • • •

. . . CHEMICAL INDUSTRIES Reader Service

Postage Will be Paid by Addressee

No Postage Stamp Necessary if Mailed in the United States

BUSINESS REPLY CARD

First Class Permit No. 64 (Sec. 34.9 P.L.&R.) New York, N. Y.

CHEMICAL INDUSTRIES Buyers Guide

Reader Service Department
McGraw-Hill Publishing Company
330 West 42nd Street
New York 18, N. Y.

Postage Will be Paid by Addressee

No Postage Stamp Necessary If Mailed in the United States

BUSINESS REPLY CARD

First Class Permit No. 64 (Sec. 34.9 P.L.&R.) New York, N. Y.

CHEMICAL INDUSTRIES Buyers Guide

Reader Service Department
McGraw-Hill Publishing Company
330 West 42nd Street
New York 18, N. Y.

CHEMICALS & RAW MATERIALS

. . . . . PAGE 49

In alphabetical order, here are the chemicals and raw materials—with the names of the companies who supply them. Use a card at the left to inquire about any products you see advertised in the ads liberally sprinkled up and down the pages. We will tell the company that you saw his ad and want additional information.

RESEARCH CHEMICALS

. . . . . PAGE 469

This new section consists of an alphabetical list of industrial research chemicals, both organic and inorganic, together with their manufacturers. Listings are limited to chemicals that are currently being produced in research quantities only.

CHEMICAL SPECIALTIES

. . . . . PAGE 481

In this section are listed all the chemical specialties in alphabetical order, and all the companies supplying the specialties. Use the Reader Service postcards at the left to get more details on any product that you see advertised in this section.

EQUIPMENT AND CONTAINERS

. . . . . PAGE 619

Do you need some more information on the multitude of equipment and containers advertised here? The ads can be found in the pages of this section which list alphabetically the suppliers of this kind of equipment Just fill in the cards and we do the rest.

IN GENERAL . . .

You can use our Reader Service free postcards for any advertisement appearing in the Buyers Guide. This, of course, includes front, inside and back cover-ads as well as the ads in the individual sections. Let us do the work for you—fill out one of the cards and mail them in. We'll tell the companies your interests. They'll answer you direct.

A 4-WAY BULK PACKAGING SERVICE

SAFE • CONVENIENT • ECONOMICAL

WOODEN BARRELS
FIBRE DRUMS
STEEL DRUMS
PLYWOOD DRUMS



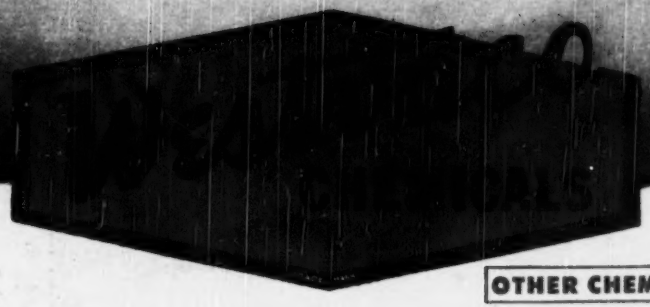
1949 Display 22nd Exposition of Chemical Industries

THE GREIF BROS. COOPERAGE CORPORATION

2000 West 25th St., Cleveland 13, Ohio

FACTORIES AND BRANCHES IN PRINCIPAL CITIES • WAREHOUSE STOCKS IN MOST INDUSTRIAL MARKETS

PROMPT TRUCK OR CARLOAD DELIVERIES



ALKALIS

CAUSTIC POTASH
45-50% Liquid
Flake and Solid

CAUSTIC SODA
Liquid 50% Standard and Rayon Grades
Liquid 70-73% Standard Grade
Flake and Solid

CRUDE SODIUM SESQUICARBONATE

NATURAL SODA ASH
Light and Dense

PHOSPHATED CAUSTIC SODA

SOLVENTS

CARBON BISULFIDE

CARBON TETRACHLORIDE
Technical and C.P

ETHYLENE DIBROMIDE

SULFUR MONOCHLORIDE

TRICHLORETHYLENE
Technical and Degreasing Grades

PHOSPHATES

ACID SODIUM PYROPHOSPHATE (ASPP)
Food and Technical Grades

CHLORINATED PHOSPHATE

DIPOTASSIUM PHOSPHATE (DKP)

DISODIUM PHOSPHATE (DSP)
Food and Commercial Grades

MONOPOTASSIUM PHOSPHATE (MKP)

MONOSODIUM PHOSPHATE (MSP)

PHOSPHORIC ACID, 75%
Food and Commercial Grades

SODIUM TRIPOLYPHOSPHATE (STPP)

TETRAPOTASSIUM PYROPHOSPHATE (TKPP)

TETRASODIUM PYROPHOSPHATE (TSPP)
Anhydrous and Crystals

TRIPOTASSIUM PHOSPHATE (TKP)

MAGNESIAS

Westvaco produces a wide variety of Magnesias from both seawater and mined Magnesites. Extreme flexibility of plant facilities allows the production of "custom-built" Magnesias suited to new applications. The more important standard types of Magnesia in regular production are

ADSORPTIVE GRADE
Powdered and Granular, various activities

AGRICULTURAL GRADE

CHEMICAL GRADE

CHLORIDE FREE GRADE

INSULATION GRADE

OXYCHLORIDE CEMENT GRADE

REFRACTORY GRADE—Periclase

RUBBER GRADE—Heavy

OTHER MAGNESIUM CHEMICALS

MAGNESITE—Crude Mined

MAGNESIUM CHLORIDE
Liquid and Flake

MAGNESIUM SILICATE
Adsorptive (Magnesol*)

BARIUM CHEMICALS

BARYTES, GROUND

BARIUM CARBONATE***

BARIUM HYDROXIDE
Octahydrate, Technical, Flake and Crystal Glass Grade, Crystal

BARIUM HYDROXIDE
Pentahydrate, Flake

BARIUM NITRATE

BARIUM OXIDE

BARIUM PEROXIDE

BARIUM SULFIDE***
(Black Ash)

BLANC FIXE
Powder and Paste

SPECIALTY PRODUCTS

ALUMINA HYDRATE K
(Basic Aluminum Sulfate)—A white dry powder which is transparent when milled with lithographic varnishes and paint vehicles.

ALUMINA HYDRATE P
(Basic Aluminum Phosphate)—A white, dry powder similar to Alumina Hydrate K

ALUMINA HYDRATE PASTE
A water suspension of Alumina Hydrate K

DRY MIXTURES
Mixtures formulated to order containing phosphates, alkalis, detergents, etc.

FIRE EXTINGUISHER FLUID
Carbon Tetrachloride Base

FOSKLOR*
A white dry powder which as a water solution is useful as a disinfectant, germicide and deodorant. The active agent is sodium hypochlorite.

HEPTANE, NORMAL, ASTM Certified
Meets ASTM requirements
For use as a primary reference fuel

KAM*—BOTTLE WASHING COMPOUND
Phosphated Caustic Soda

OTHER CHEMICALS

ALUMINUM BROMIDE—Anhydrous

ANHYDRITE—Anhydrous Calcium Sulfate

BROMINE—Liquid

CHLORAL—Technical

CHLORINE—Liquid

FERROPHOSPHOROUS

GYPSUM
Cement, Agricultural and Chemical Grades

HYDROBROMIC ACID, 48%

HYDROGEN BROMIDE
—Anhydrous

HYDROGEN PEROXIDE

PHOSPHATE SLAG

SODIUM POLYSULFIDE

SODIUM SULFIDE, 60-62%
Flake and Solid Grades

STRONTIUM HYDROXIDE
Octahydrate, Technical Grade Crystal

AGRICULTURAL CHEMICALS

***DEVEX "T"**—DDT Technical

DEVEX D-50—DDT Dry Dust, 50%

DEVEX W-50—DDT Wettable Dust, 50%

FOSVEX*—Tetraethyl Pyrophosphate, 40%

WESTVACO GRAIN FUMIGANTS
Various mixtures of Carbon Tetrachloride, Carbon Bisulfide, Ethylene Dichloride and Ethylene Dibromide available.

METHYL BROMIDE
Shipped in cylinders and cans under pressure as a liquid—for fumigation of nurseries, greenhouses, warehouses, flour mills, railroad cars, and similar structures.

SOILFUME 60-40* — 42% Ethylene Dibromide, by weight

SOILFUME 80-20* — 23% Ethylene Dibromide, by weight

SOILFUME 85** — 85% Ethylene Dibromide, by weight

***TRIVEX "T"**—Benzene Hexachloride, Technical

TRIVEX G-9*
Benzene Hexachloride Dry Dust, 9% Gama Isomer

TRIVEX W-50
Benzene Hexachloride Wettable Dust, 6% Gama Isomer

LEAVENING AGENTS AND FORMULATIONS
Baking powders and creams based upon acid sodium pyrophosphate

MAGNESOL*—ADSORPTIVE POWDER
An activated hydrated magnesium silicate, in the form of a fluffy, white free-flowing powder—strongly adsorptive toward a variety of substances.
DRY CLEANING GRADE
PETROLEUM GRADE
INDUSTRIAL GRADE

TROMEX*—DEGREASING SOLVENT
A trichlorethylene all-purpose metal degreasing solvent, suitable for use with light metals as well as heavy metals.

* TM Reg. U.S. Pat. Off.

** Trade-Mark

*** For Delivery on West Coast only

Westvaco CHEMICALS

WESTVACO CHEMICAL DIVISION

FOOD MACHINERY AND CHEMICAL CORPORATION

GENERAL OFFICES • 405 LEXINGTON AVENUE, NEW YORK 17

CHICAGO, ILL. • CLEVELAND, OHIO • CINCINNATI, OHIO
ST. LOUIS, MO. • LOS ANGELES, CALIF. • NEWARK, CALIF.

fmc